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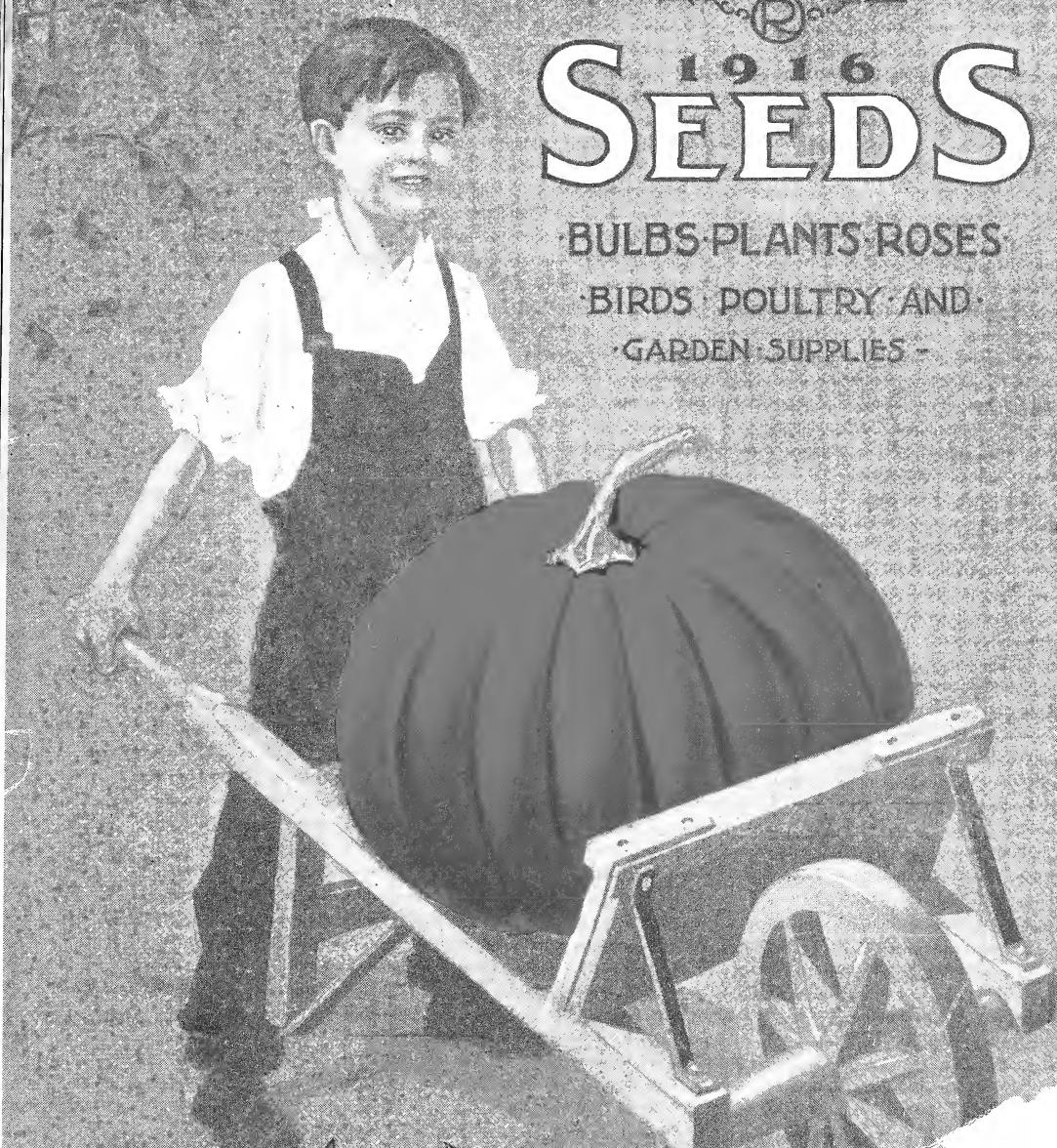
**Direct from Grower to Planter-NO AGENTS**

HIGHEST QUALITY



# 1916 SEEDS

BULBS PLANTS ROSES  
BIRDS POULTRY AND  
GARDEN SUPPLIES -



**Routledge**  
**SEED & FLORAL**

169 171 2nd St. PORTLAND

A bout parcel

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On cash orders only, WE WILL, at prices printed in this catalog, SEND BY PREPAID PARCEL POST right to your gate ALL SEEDS by the Packet, Oz., or single Pounds, ALL PLANTS (not potted), BULBS, ROOTS, ROSES (tree roses excepted), FRUIT BUSHES and VINES (fruit trees excepted), SMALL SHRUBS and VINES (balled Evergreens like Spruce, Holly, Rhododendrons, etc., excepted).

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## Order Sheet

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**SPECIAL NOTICE.**—We shall esteem it a great favor if you will give us in the spaces below the names and addresses of some of your neighbors or any acquaintances in the West whom you think would be interested in this catalog. For your kindness, we will put in your order a premium plant, bulb, or seeds, free of charge.

NAME	POS OFFICE	R. F. D.	STATE

**NOTE**—Before you send this order read carefully what we have to say about parcel post and transportation charges on inside of front and back cover.



RALPH R. ROUTLEDGE  
Pres. & Gen. Mgr.

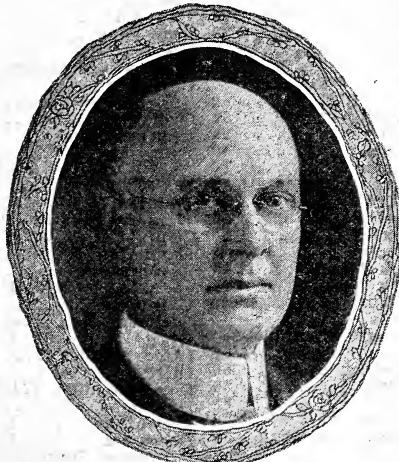


C. H. (DUKE) ROUTLEDGE  
Vice-Pres. & Mgr. Salesroom.

### Greetings to Our Customers and Friends

When there are four brothers associated together in one business, and all taking an active part, it is difficult for customers to know "who's who." It is also confusing, especially when telephoning, to tell which Mr. Routledge they wish to talk to. The object of these pictures is to enlighten you.

The four Routledge brothers, individually and collectively, wish you a very happy and most prosperous 1916, and sincerely thank you for the many orders and favors shown us. We trust our high quality stocks and service warrant your further patronage.



J. IRA ROUTLEDGE  
Secy.-Treas.—Accountant.



GEORGE L. ROUTLEDGE  
Mgr. Bird and Pet Dept.

### **U. S. Parcel Post**

We are now permitted to send Shrubs, Plants, and Bulbs through the mail at the new parcel post rates, therefore, we have decided to do away with all agents and traveling salesmen and do a direct **mail order business** with our customers. This enables us to give you direct and personal attention, quick service and lower prices. You get the benefit of the agent's commission.

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# ROUTLEDGE SEED & FLORAL CO'S

## Highest Quality VEGETABLE SEEDS

We catalog only the very best varieties of both the newer and the older strains, those that are especially adapted to the peculiar conditions on the Pacific Coast.

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**Pkt. 10c; oz. 35c; 4-oz. \$1.00**

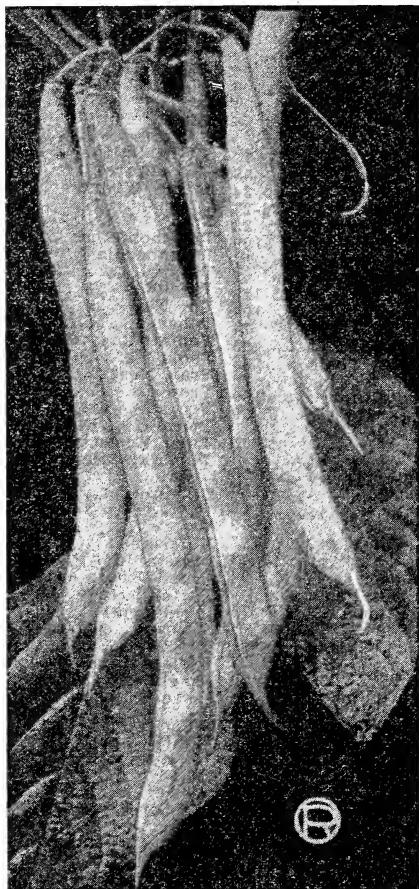
**White French.**—Grown for stock. See page 40.

### ASPARAGUS

**COLUMBIAN MAMMOTH WHITE.**—Gives immense yield of large, clear, white shoots; very tender and of excellent flavor.  
**Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c**

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**Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 70c**

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**Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 70c**



DAVIS KIDNEY WAX.



Asparagus Tips

### ASPARAGUS ROOTS

You can save two years' time by buying Asparagus Roots. For prices, see Vegetable Roots, page 98.

### BEANS

#### Dwarf or Bush—Yellow Podded

Packet and single pound prices are prepaid. Add postage to 10 lbs. prices if wanted by mail.

#### Davis Kidney Wax (See Cut)

The most hardy and productive wax bean. The pods are long, white, straight, crisp and tender. The vine is rustless and very vigorous, bearing the pods in clusters. For canning this is unexcelled on account of purity of the pod and bean. It is a remarkably good variety for shipping; seed white, and on this account is desirable for a shelled bean in winter. **Large pkt. 10c; 1b. 30c; 10 lbs. \$2.50**

#### Wardwell's Kidney Wax

A hardy, strong-growing vine; handsome, long podded variety. A few days later than Golden Wax; pods long, golden-yellow, brittle and entirely stringless; seed white, with dark markings about the eye. Market gardeners find this bean one of the most profitable. **Large pkt. 10c; 1b. 35c; 10 lbs. \$2.75**

#### Improved Golden Wax

Medium early, heavy cropper, vine vigorous. May be sown early or late with the assurance of a good crop. Pods are golden yellow, fleshy and solid, brittle, waxy texture and have an exceptionally rich buttery flavor. Excellent for home or market garden.

**Large pkt. 10c; 1b. 35c; 10 lbs. \$2.75**

#### Prolific Black Wax

The earliest wax variety. Pods clear, light yellow, round, fleshy, tender, stringless and remain in fit condition for some time. A heavy yielder that we can recommend. See cut page 5.

**Large pkt. 10c; 1b. 30c; 10 lbs. \$2.50**

**NOTE**—Seed Beans are high in price again this year. Seed crops were almost a failure in many sections.

**INCREASE** Your Bean Crop and **IMPROVE** your soil by using Muiford's CULTURES. Read about it on page 36.

**BEANS—Continued****Dwarf or Bush—Green Podded Kinds**

Packet and single pound prices only are prepaid. Add postage to 10 lb. prices if wanted by mail.

**Stringless Green-Pod**  
The most popular and best liked green snap bean.

This famous bean is unequalled as a first-early!

It combines unusual hardiness, extreme earliness, and wonderful productiveness with handsome appearance and finest quality of pods. Extra early plantings may be made to produce the earliest crop, and even with later plantings this bean is the quickest to produce pods.

By repeated plantings pods may be had in constant succession from spring until cut off by heavy frosts in the fall. Combined with the extra hardiness and early maturity, the pods are the finest in quality, of a rich green, very round and almost straight, long, solidly meaty and plump,—deeply saddle-backed, caused by the rounded swell of the fleshy sides. The pods are tender, brittle, and of finest flavor, always entirely stringless even when fully matured.

**Large pkt. 10c; 1b. 30c; 10 lbs. \$2.35**



Stringless Green Pod.

**DWARF HORTICULTURAL.**—One of the best dwarf sorts for green shell beans for the home garden and market and can be used early as a green podded snap bean. The plants are very productive, compact and upright, with large leaves. The mature pods are about five to five and one-half inches in length, broad and thick, curved, with splashes of bright red on a yellowish ground. They become fit for use as green shelled beans early and in this condition the beans are very large, easily shelled and are about equal to the Lima in quality. Seed large, oval, plump, pale buff splashed with deep red.

**Large pkt. 10c; 1b. 30c; 10 lbs. \$2.35**



Prolific Black Wax (page 4)

**LONG YELLOW SIX WEEKS.**—A very productive, extra early variety with long, straight, thick pods.

**Large pkt. 10c; 1b. 25c; 10 lbs. \$2.00**

**Broad Windsor**

An English variety; large, broad, flat beans of delicious flavor. Used as a shell bean.

**Large pkt. 10c; 1b. 25c; 10 lbs. \$1.85**

**Lady Washington****For Dry Shelled Bean**

A great improvement over the old "Navy," being much earlier, a little larger, and a very heavy yielder, especially adapted to western conditions. The pods all ripen together and early enough to harvest before winter rains. Bean pure white.

**Large pkt. 10c; 1b. 25c; 10 lbs. \$2.00  
write for quantity prices.**

**CASTOR BEAN**

Used for medicinal purposes and by some claimed to keep moles away. Ornamental foliage, 4 ft.

**Large pkt. 10c; 1b. 40c**

## BEANS—Continued

Packet and Single Pound ONLY are postpaid. Add postage if wanted in 10-lb. lots by mail.

### Climbing or Pole Beans

#### Improved Kentucky Wonder (Asparagus)

A very popular variety; often sold as asparagus. By far the best green podded pole variety. Pods green, very long, round and perfectly stringless. Enormously productive and early, remaining in "fit" condition a long time. Unsurpassed for the table, being very tender and of delicious flavor.

**Large pkt. 10c; lb. 30c; 10 lbs. \$2.25**

#### Worcester Pole

The finest Pole Shell Bean in cultivation and on account of its wonderful productiveness and superior quality takes first rank as a Pole Shell Bean. The strain we offer is an especially fine one. The long, thick pods are brilliantly colored with crimson carmine and are borne in clusters. Unequaled for tenderness and delicious flavor.

**Large pkt. 10c; lb. 30c; 10 lbs. \$2.25**

**EARLY GOLDEN CLUSTER WAX.**—A very popular early and fine variety; pods golden yellow, long, wide and flat, borne in clusters, of fine quality and remain in condition to use for a long time; seed flat and dull white.

**Large pkt. 10c; lb. 35c; 10 lbs. \$2.50**

**LAZY WIFE.**—(Dutch Case Knife). Produces heavy crops of broad, flat, fleshy, tender, stringless green pods. Fine snap beans or shelled for winter use; rich buttery flavor.

**Large pkt. 10c; lb. 30c; 10 lbs. \$2.50**

**SCARLET RUNNER.**—Grown extensively for ornamental purposes, as flowers are a most brilliant scarlet and borne profusely; beans are broad and flat, and of fine flavor when cooked, same as Lima beans.

**Large pkt. 10c; lb. 40c**

### Pole Lima Beans

#### Early Leviathan

One of the newer varieties and the very best pole variety in cultivation; pods long and borne in clusters; beans large and white; is early, strong-growing and prolific.

**Large pkt. 10c; lb. 30c; 10 lbs. \$2.00**

**KING OF THE GARDEN LIMA.**—The largest podded variety and very productive vines; very vigorous, often producing pods six to seven inches long. Beans large and of fine flavor.

**Large pkt. 10c; lb. 30c; 10 lbs. \$2.00**

### Dwarf or Bush Lima

**HENDERSON'S BUSH LIMA.**—Fully two weeks earlier than any other variety. Plant grows about 16 inches high, and very prolific; beans are small; especially recommended where the season is short.

**Large pkt. 10c; lb. 25c; 10 lbs. \$2.00**



Henderson's Bush Lima Beans.

Although pole beans require a little more care and labor, they are, when properly grown, usually of longer bearing period than the dwarf sorts and are much more productive.



Kentucky Wonder.  
Asparagus.

**BURPEE'S BUSH LIMA.**—The best late dwarf variety; plants grow 18 to 24 inches high; very prolific; pods large, and the beans also large and heavily ribbed; will bear until stopped by frost.

**Large pkt. 10c; lb. 30c; 10 lbs. \$2.00**

Use  
Nitro-  
Germ

on your  
bean  
seed  
before  
planting.  
See  
page 36.

## BROCCOLI

Forms a head like cauliflower, but is much hardier and gives excellent results. For fall use sow in April and May, for winter and spring cutting, June and July.

Very extensively planted by our local market gardeners for use in the late fall, winter and spring when cauliflower is out of season. Besides the **White French**, our old popular variety, we have procured from England three later varieties of real merit and great value.

**WHITE FRENCH.**—A valuable fall variety, large white heads of good quality.

Pkt. 5c; oz. 40c; 4 oz. \$1.25

### St. Valentine

An excellent variety, heads large, solid and white; remains in good condition a long time. We import our seed direct from the originator. This strain has given excellent satisfaction to our large growers. Ready to cut in February.

Pkt. 10c; 1/4 oz. 35c; 1 oz. \$1.00

### Sutton's Winter Mammoth

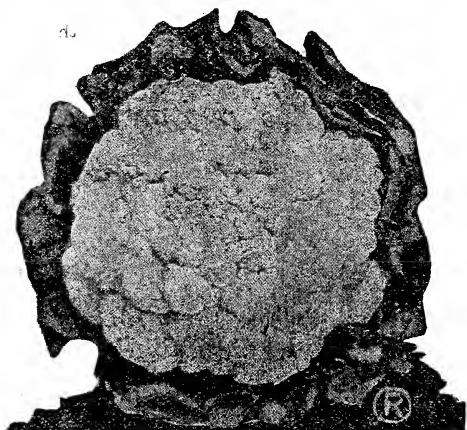
Immense white heads, superb in texture and quality, coming into use in midwinter, when the late autumn cauliflowers and broccoli are over. Vigorous in habit and self-protecting.

Pkt. 10c; 1/4 oz. 25c; 1 oz. 75c

### Sutton's Late Queen

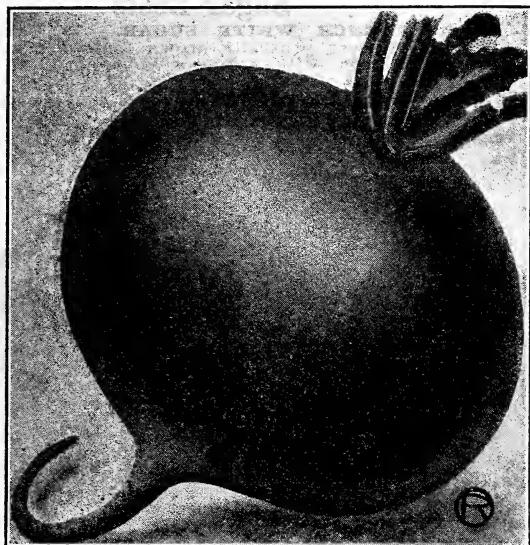
Quite distinct from all other broccoli, dwarf and compact in growth, rarely affected by frost, and produces splendid heads in May and June. Sutton's Late Queen has successfully passed through most severe winters. The heads are well protected, large, handsome and greatly appreciated at table.

Pkt. 10c; 1/4 oz. 30c; 1 oz. \$1.00



Sutton's Late Queen.

## TABLE BEETS



Routledge Favorite.

### Improved Early Blood Turnip

This is the ideal beet for market gardeners. It is very symmetrical, with small tap root and but few fibrous roots; color outside is deep blood red; fine grained and unsurpassed in quality. It continues to grow until late in the fall, attaining a large size and making a good selling and eating beet for winter.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00

## —OUR MOTTO is—

"Highest Quality"

It's quality FIRST, then price as low as possible. The best seeds are the cheapest in the end, even though they cost a little more.

### Routledge Favorite

A select strain, very early. Perfectly globe shaped, with a single tap root, and of the richest color of any of the beets. It is a splendid keeper, is not excelled in yielding qualities by any other sort, is exceedingly tender, fine and sweet and is unequaled for table use. Market gardeners will find our Favorite a very profitable variety to grow, as no other sort approaches it in attractiveness or quality.

Pkt. 10c; oz. 15c; 4 oz. 40c; lb. \$1.25

### Crosby's Egyptian

Very popular early beet, as it reaches the desired size quickly. The beets are of good size, rather flat than round, and flesh dark.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

### Detroit Dark Red

Excellent variety, nearly globular, dark skin and dark flesh, zoned lighter; maturing early and keeping crisp and tender for a long time.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

## TABLE BEETS—Continued

### EDMAND'S BLOOD TURNIP

Unsurpassed for late planting; deep blood-red flesh, very tender and juicy, runs very evenly in size and quite round; grows a small top.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. \$1.00

**HALF LONG BLOOD.**—Becoming more and more popular. Excellent in shape and quality; yields well. Pkt. 5c; oz. 10c; 4-oz. 30c; lb. \$1.00

**LONG BLOOD.**—The root is smooth and handsome, flesh brilliant in color and excellent quality. Good keeper.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. \$1.00

### Swiss Chard

#### "Spinach Beet" or Sea Kale.

This does not make edible roots like the regular garden beets, but is grown for the broad white leaf-stalks, which are bunched and cooked in the same manner as asparagus. The young leaves may be gathered also and cooked like spinach. Makes a delicious summer vegetable.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00



Swiss Chard.

### Stock Beets or Mangels

Price of all the following varieties: Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 50c; 10 lbs, and upward, not prepaid, 40c lb.

### GIANT YELLOW ECKENDORF

A new mangel of great merit. The roots are smooth, long and cylindrical in shape, very heavy, weighing up to 15 and 20 pounds each; grow two-thirds above ground. The flesh is firm, crisp and solid, white in color and of high feeding value. (See cut.)

### Giant Half Sugar Mangel

A new variety, very much more valuable for feeding purposes than the old sorts, it being very much richer. Yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beet. Roots grow very large and smooth, creamy white in color. (See cut.)

### MAMMOTH LONG RED

Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the ground; roots quite regular; attain a very large size. (Same shape as No. 2.)

### DANISH SLUDSTRUP

An improved variety, considered one of the best. Awarded first class certificate. Color, reddish yellow, and of a distinct type. It is very hardy, grows well above ground; is easily pulled and very nutritious. (See cut.)

### GOLDEN TANKARD

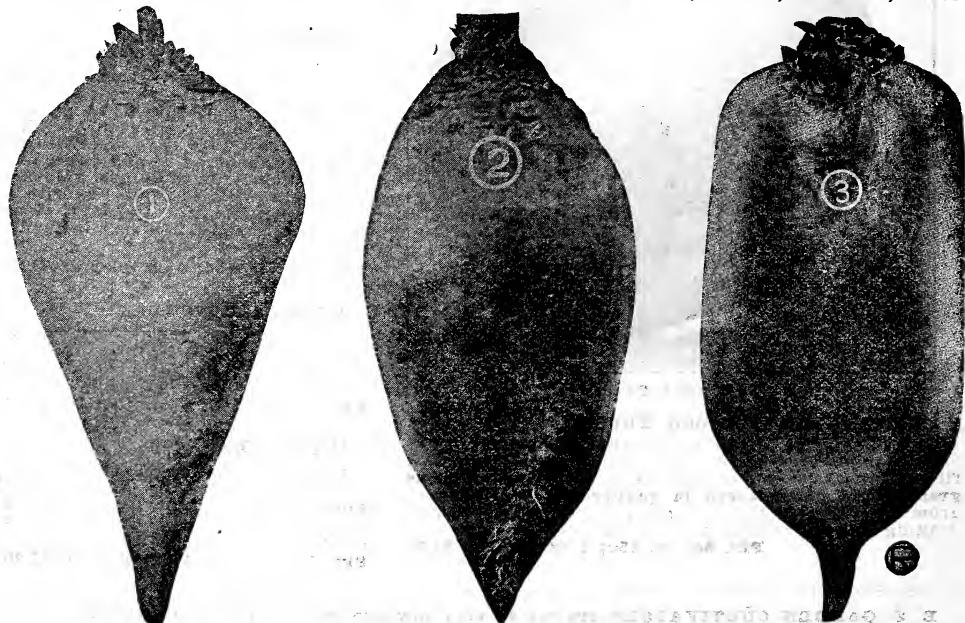
An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep yellow, of fine shape, growing largely above ground, thus being easily harvested. (Same shape as cut No. 3.)

### Sugar Beets

**FRENCH WHITE SUGAR.**—The sugar beet most generally grown for stock, as it combines, with heavy yield, from 10 to 18 per cent of sugar.

**KLEIN WANZLEBEN.**—This is the variety which is considered best in Germany for producing sugar, and is now taking the lead in this country for this purpose.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 60c



(1) Giant Half Sugar.

(2) Danish Sludstrup.

(3) Giant Yellow Eckendorf.

**BRUSSELS SPROUTS**

**PERFECTION OR DALKEITH.**—Plants are of dwarf growth and stems are thickly set with large, solid sprouts. This variety is very hardy and even during quite severe weather, the plants maintain their sprouts; in fact, the flavor and quality is much improved by frost. Pkt. 5c; oz. 25c; 4 oz. 75c

**CHIVES.**—See Vegetable Roots, page 33.

**CHICORY**

Chicory is grown quite largely for the large thick roots, which are sliced, dried, roasted, and ground as a substitute or adulteration for coffee. The leaves are also used as a salad during the early spring months. To secure large smooth roots the soil should be light, rich, and deeply worked, and the plants should be thinned out to stand four to six inches apart. One ounce to 100 feet of row.

**LARGE-ROOTED OR COFFEE.**—Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25.

**CHERVIL**

One ounce sufficient for 100 feet of drill.

**CURLED.**—An aromatic herb, resembling parsley, and used for flavoring in soups and salads. Fine for garnishing.

Pkt. 5c; oz. 15c; 4 oz. 40c

**CRESS**

**CURLED OR PEPPER GRASS.**—Used as a salad and fine for garnishing.

Pkt. 5c; oz. 10c; 4 oz. 25c

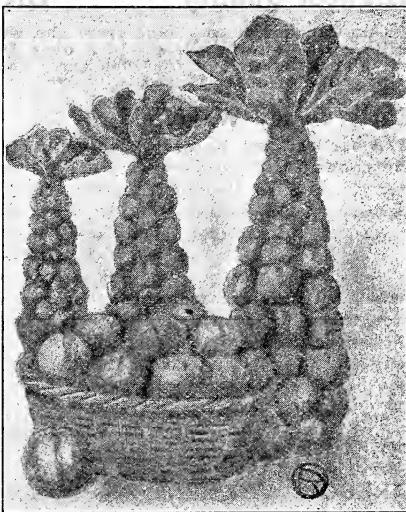
**TRUE WATER.**—This is quite distinct from the former and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads.

Pkt. 10c; oz. 35c; 4 oz. \$1.25

**"Highest Quality"**

**CAULIFLOWER**

**Plants Page 33**

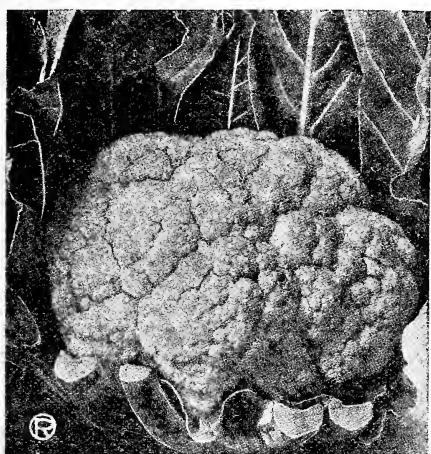


Brussels Sprouts.

**COLLARDS**

**TRUE GEORGIA.**—Used as "greens" mainly in the South and West. As the leaves are pulled off, others grow in their places.

Pkt. 5c; oz. 15c; 4 oz. 30c



Routledge Snow White.

**EXTRA EARLY SNOWBALL (Extra Selected).**—This is the choicest selected strain of the popular Erfurt type, and is remarkable for its extreme earliness and reliability in heading. Medium size heads. Plants quite dwarf.

Pkt. 10c; 1/4 oz. 60c; oz. \$2.00

**VEITCH'S AUTUMN GIANT.**—A large, late variety, very hardy. The heads are well protected by the foliage, enabling it to resist unfavorable climatic conditions.

Pkt. 5c; 1/4 oz. 25c; oz. 75c; 4 oz. \$2.25

**ROUTLEDGE'S "SNOW WHITE"**

In competition with all other strains, this cauliflower has won the approval of critical gardeners, being early and also the **best main crop** sort grown. It is suitable not only for early use, but is superior for late planting. The heads are compact, firm and solid, and do not spread as do some of the inferior sorts. No other equals it in purity of color, being **clear snow white**. It is equally desirable for family use and for the market garden. The heads are large—from 9 to 12 inches in diameter. Very resisting against unfavorable seasons and dry weather, the foliage giving a splendid protection.

Pkt. 20c; 1/4-oz. 75c; 1/2-oz. \$1.35; oz. \$2.50

**EARLY SNOWBALL**

This variety is much in demand by market gardeners. Its earliness, compact habit, large-sized heads and snow-white color recommend it to every grower as a variety of especial merit. We have an extra selected stock of this sort, and recommend it with the greatest confidence.

Pkt. 15c; 1/4-oz. 65c; 1/2-oz. \$1.20; oz. \$2.25

**NEW CALIFORNIA WONDER.**—A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon and California, wherever tried. Pkt. 10c; 1/4-oz. 50c; oz. \$1.00; 1/4-lb. \$3.00

**ALGIERS.**—A very strong growing late variety, with large leaves of a bluish cast. In cool locations and rich soil it produces very large, solid, white heads late in the fall.

Pkt. 10c; 1/2-oz. 40c; oz. 75c; 4 oz. \$2.25

**BUG DEATH** kills all leaf-eating insects; excellent for using on cabbage, cauliflower, etc. Can be used either dry or in water. See description, page 103; also dusters and blowers, page 101.

**"Highest Quality"****CABBAGE****True and Pure**

Our Cabbage Seeds come from the world's best growers—pure, true strains, of highest quality. One ounce will produce over 3000 plants. One-quarter pound of seed will produce plants sufficient for one acre, therefore, don't practice false economy by buying low-priced, low-quality seed.

**Early Jersey Wakefield**

The earliest and hardest heading of first early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardiness not only to resist cold but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better, and few as good. Head conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit makes it the best sort for very early setting. HIGHEST QUALITY SEED.

Pkt. 5c; oz. 30c; 4 oz. 90c; lb. \$2.75

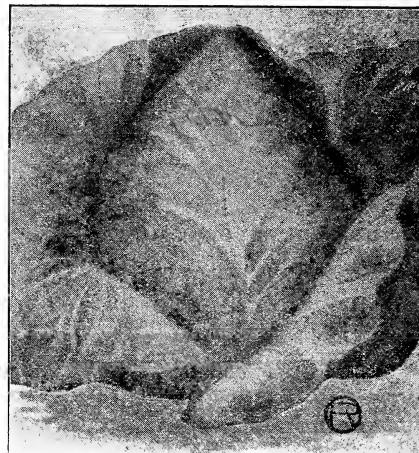
**R. S. & F. CO.'S****OREGON WAKEFIELD**

A new, most remarkable and valuable strain of Wakefield. It has the same general characteristics of other Wakefield cabbages, the heads being conical with a rounded or blunt point. It is, however, far superior to other strains, being nearly double the size and of better quality, and at the same time is almost as early. It has few outer leaves, permitting close planting.

Pkt. 10c; oz. 30c; 4 oz. 90c; lb. \$3.00

**EARLY YORK.**—A small, early, conical heading cabbage. Has been very popular. Plant close.

Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.25



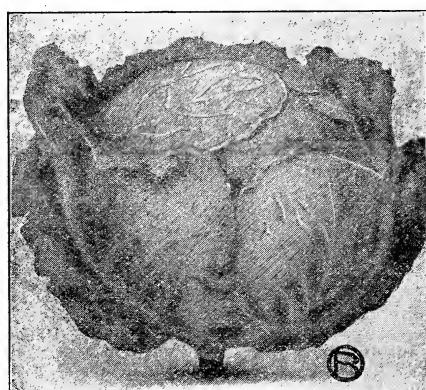
Early Jersey Wakefield.

Star, Ore., March 24, 1915.  
Routledge Seed & Floral Co.

Gentlemen: Your seeds are fine and I have had splendid luck with all of them.

Yours truly,

A. J. YOUNG.



Danish Round Head.

**"Wonder" Odorless Fertilizer.**

Use a teaspoonful of "Wonder" to each cabbage plant, and you will have the best cabbage you ever raised. It's the richest, greatest fertilizer ever prepared for vegetable and flower gardens. Only 25c a package. See page 34.

**EARLY SPRING.**—It is the first early round-head cabbage, maturing about the same time as Jersey Wakefield. One of its chief claims to superiority is the remarkable uniformity of the heads. They are also very solid, even when young, and with very small outside leaves.

Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.50

**Early Winnigstadt**

One of the best for general use, being very hardy, sweet, fine quality, and sure to head. Head regular, conical, very hard and keeps well both summer and winter. It is the hardest, not only as regards frost, but will suffer less from excessive wet, drought, insects or disease than any other second early sort.

Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.25

**Copenhagen Market—New**

The earliest large round-headed cabbage yet introduced. Sure to head and every head perfect. The plant is of vigorous habit but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. The heads are round, very solid and of exceptionally good quality. Its earliness, compact growth, uniformity and size of head, firmness and most excellent quality combine to make Copenhagen Market the most valuable cabbage of recent introduction. We recommend it unreservedly. Worth the additional price.

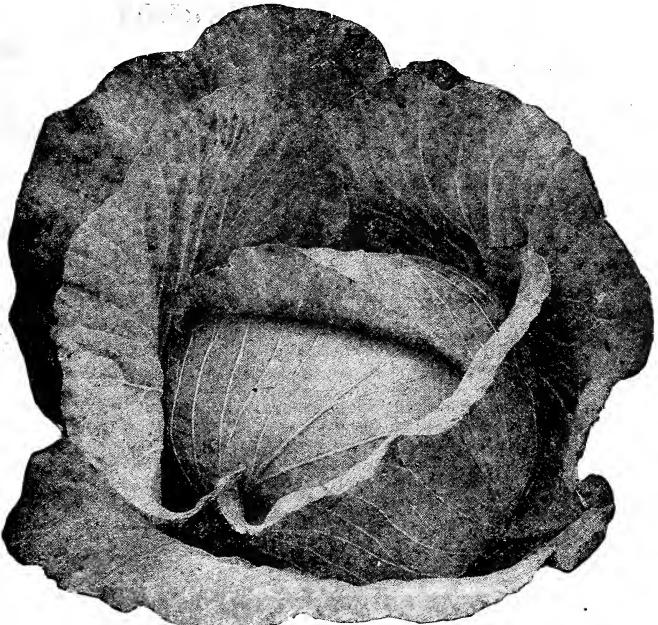
Pkt. 10c; ½ oz. 25c; oz. 40c; 4 oz. \$1.25

**Danish****Round Head**

An earlier short-stemmed strain of the famous Danish Ball Head.

Large and very solid, round head on short stems, having the same keeping quality as the original strain of Danish Ball Head, so widely known. It is 10 days to 2 weeks earlier and produces larger yields. It is especially valuable for high, dry land, producing good sized heads where other strains would be too small. For shipping in the late fall or winter there is no finer cabbage. Our seed of Danish Round Head comes direct from the originator in Denmark and is of the **Highest Quality**. See cut, page 10.

Pkt. 10c; oz. 30c; 4 oz. 90c; lb. \$3.00.

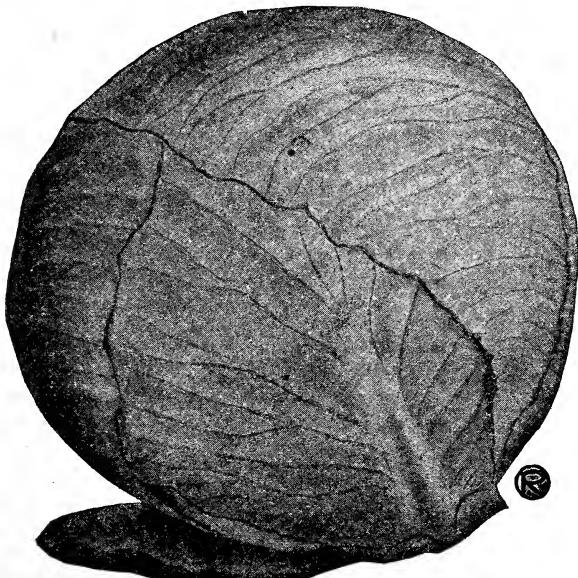


Premium Late Flat Dutch.

**Danish Ball Head—Genuine Danish Grown Stock**

Most remarkable late cabbage yet produced, heads hard and solid—fine grained and tender. **Entirely distinct.** Exceedingly hardy in resisting cold and wet weather. We offer true, pure seed of the very finest medium short stemmed type. **Famous for its hard-heading qualities**, which at once recommends it as highly valuable for shipping. The magnificent heads are round in form and keep in excellent condition during winter, coming out in the spring perfectly solid.

Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.75



Danish Ball Head or Hollander.

**Premium****Late Flat Dutch**

A low growing variety; heads large, bluish green; round, solid, broad and flat on top; an excellent fall and winter variety, and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads, and we consider it superior to any other strain of Flat Dutch cabbage on the market.

Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.50

**PERFECTION**

**DRUMHEAD SAVOY.**—A variety that is much prized by those who are familiar with it. It is very sweet and crisp, and always tender. Heads medium size and compact, with densely and uniformly crimped or savoy leaves.

Pkt. 5c; oz. 30c; 4 oz. 90c; lb. \$3.00

**MAMMOTH ROCK BED.**—Best hard-headed, red variety; large heads, globular, and very deep red on top. **Very tender and excellent quality;** fine for cold salads on account of its attractive color.

Pkt. 5c; oz. 35c; 4 oz. \$1.00

**DO YOU SEND EAST** for your Seeds? It's bad policy. Spend your money on this Coast. Here's where you sell your products. Our Seeds are highest quality.

## CARROT

### FRENCH FORCING

Extremely early, sweet and mild, very popular. Roots small, globe-shaped, reddish orange, fine for early table.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

### EARLY SCARLET HORN

May be planted very early in spring, and is an excellent summer variety. Tops small and roots grow about 3 inches long; reddish-orange and good flavor.

Pkt. 5c; oz. 20c; 4 oz. 50c; lb. \$1.50

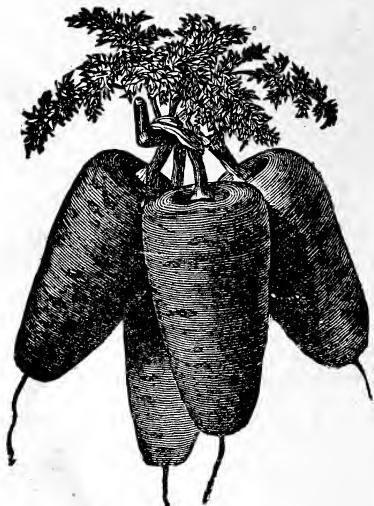
### Routledge Model—Coreless

The finest early table variety grown. Handsome, meltingly tender and sweet

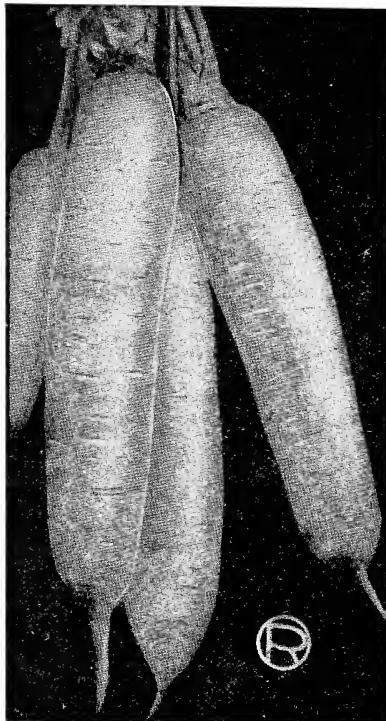
This new carrot will no doubt prove to be one of the most popular varieties. You will be delighted with the melting tenderness and sweet, mild flavor of Routledge Model.

It is a half-long cylindrical carrot, blunt pointed, with a small tap root and small top. They run very uniform in shape and grow just the right size for table use. The flesh is of fine texture, entirely devoid of stringiness, coarseness and woody heart; color bright orange; very attractive when served.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50



Early Scarlet Horn.



Routledge Model—Coreless.

### Dad's Electric Lantern

The best and safest light for the farmer. No matches or danger of fire around the barns. See page 110.

**PREMIUMS.**—No matter what you are buying, the only premium worth your consideration is **QUALITY**. "OUR MOTTO" is "**HIGHEST QUALITY**," first, last and all the time, "price" as low as possible.

### Chantenay

**The Market Gardener's Favorite.**—Tops medium sized, necks small, roots tapering slightly, but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender; medium early; a heavy cropper.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

### DANVER'S HALF-LONG

A great favorite; big cropper; the roots are smooth and handsome, medium size, tapering uniformly to a blunt point and of a rich, dark orange; fine for table or stock feeding.

Pkt. 5c; oz. 15c; 4 oz. 50c; lb. \$1.50

### STOCK CARROTS

#### LONG ORANGE IMPROVED

The best of the long carrots, especially for stock; color bright orange, with long, tapering roots, requiring a deep soil.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 85c

**GUERANDE, OR OXHEART.**—Bright orange, broad at the top and terminates abruptly in a small tap root. Length about 5 to 6 inches; very fine grained and sweet. Excellent for shallow soils.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00

**LARGE WHITE BELGIAN.**—Extensively grown for stock feeding; roots pure white, green above ground and growing to a large size; flesh rather coarse.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 90c

*Chehalis, Wn., Feb. 12, 1915.  
Routledge Seed & Floral Co.  
Gentlemen: Your Mammoth Carrots are the  
best stock carrots I ever raised or saw.*

*Yours truly,*

*W. A. TOWNER.*

**See description ROUTLEDGE MAMMOTH  
Carrots next page.**

Oregon City, Ore.  
Routledge Seed & Floral Co.  
Gentlemen: The Routledge Mammoth Carrot is the best I ever had for stock and the heaviest cropping Carrot I ever had on the farm.

Yours,  
J. T. EVANS.

## ROUTLEDGE MAMMOTH STOCK CARROT

### Routledge Mammoth (The Best Carrot for Stock)

The heaviest cropping carrot grown, yielding more tons to the acre than any other sort. The flesh is yellowish-white, crisp and solid, and very sweet in flavor. It is a vast improvement on the Belgian sorts, which have been favorites in the past, as it is not only much more productive, but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. Too much can scarcely be said of their size and great productiveness. The roots frequently measure 15 to 20 inches in circumference, and 18 to 40 tons to the acre is not an extravagant statement as to yield.

**Large pkt. 10c; oz. 15c; 4 oz. 40c; 1b. \$1.25; 2 lbs., enough for 1 acre, \$2.25**

Highest  
Quality

### CELERY

Plants  
Page 33

#### R. S.'S WHITE PLUME

Our Leading Early White Celery.

A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of inner leaves and heart are white, so that by closing the stalks, either tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed without the troublesome process of "banking" or "earthing up." It is the earliest celery known, delicious and fine flavored.

**Pkt. 10c; oz. 30c; 4 oz. \$1.00; 1b. \$3.50**

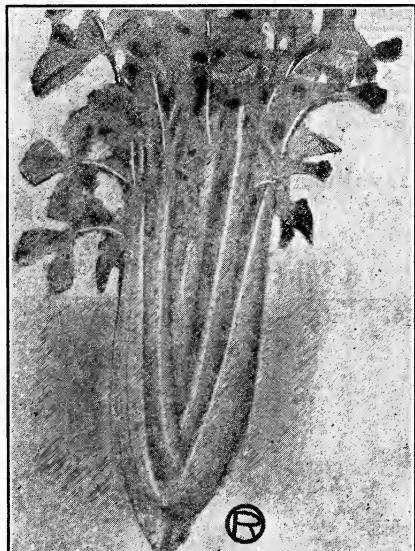
#### PARIS, GOLDEN SELF-BLANCHING

The finest strain of French grown seed. This splendid variety is without doubt the most popular celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden yellow, while the heart or vine stalks are deliciously tender, brittle and sweet. This variety is being very extensively grown both for market and private use, not only on account of its ease of cultivation, but for its superior quality. It is not quite so early as the White Plume, but is of heavier and more compact growth, the stalks being thick, crisp and brittle. The hearts are large and solid, blanching a beautiful waxy yellow. It is tender and sweet and free from stringiness. Its flavor is rich and delightful. Our Private Stock Seed is procured from a noted celery grower in France, and is very superior.

Select quality: Pkt. 10c; 1/4 oz. 35c; oz. \$1.25; 4 oz. \$4.00.

**GOLDEN YELLOW SELF-BLANCHING.**—Same variety of celery as above, but is American grown. It is equal to most seeds offered, but not as true, dependable or of such high quality as the French grown stock.

**Pkt. 5c; oz. 75c; 4 oz. \$2.50**



Paris Golden Self-Blanching.

#### GIANT PASCAL

Excellent for fall or winter use, and has increased in popularity every year. A large, tall grower of the finest nut flavor, being free from any bitter taste. Very broad stalks, blanching very quickly with little banking up; an admirable keeper.

**Pkt. 5c; oz. 25c; 4 oz. 75c; 1b. \$2.50**

#### Winter Queen

One of the best winter varieties, and highly recommended. It is tall and forms a large bunch. The leaves are light green.

**Pkt. 5c; oz. 25c; 4 oz. 75c; 1b. \$2.50**

For complete seed and plant tables, amount to plant, etc., see complete reference tables inside back cover. Always refer to "Index," pages 1-2, for anything wanted.

## CUCUMBERS



Routledge Highest Quality Cucumber.

### Routledge Highest Quality

A quick grower and always commands "fancy prices" on account of its fine form and superb quality.

It is the earliest white spine cucumber, suitable for table, market or shipping purposes, under all conditions of culture, whether under glass or in the open ground.

One of the greatest producers and at all stages of growth is the handsomest and most attractive of all American sorts.

Color a very deep green, which it retains during a long period, while in symmetry of form it is so regular, so uniform, as to create comment wherever seen.

Quality is superb, being exceedingly brittle and crisp. The flavor is delicate and entirely devoid of the bitter taste so frequently noticed in other varieties.

Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

### Arlington White Spine

One of the best sorts for table use. Vines vigorous, fruiting early and abundantly. Fruit uniformly straight, light, bright green in color, with a few white spines. Flesh crisp, tender and of excellent quality.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00

### Improved Long Green

The leading large variety. Fruit from 10 to 12 inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer "Highest Quality" seed that will grow long and uniform fruit.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

### Davis' Perfect

As now selected, the long, even fruits are of fine form, with an intensely dark rich green skin. The solid white flesh is of superb quality for slicing. So handsome and regular are the fruits, even when grown outside, that they bring an extra price on the market, often being taken for "hot-house grown." The vines are of strong growth and quite prolific.

Per pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.50

**EARLY SHORT GREEN.**—A very early and productive variety, bright green, rather short, straight and a little smaller at the ends. Crisp and tender. Good for pickling or slicing. Pkt. 5c; oz. 10c; 4 oz. 35c; lb. 85c

### Lemon Cucumber

New. Highly recommended by those who have tried it for slicing and salads. Resembles a lemon both in size, form and color. Has a distinctive flavor superior to and not found in any other cucumber. Very prolific —try it.

Pkt. 10c; oz. 25c; 4 oz. 75c

### Boston Pickling

A distinct variety, very popular for pickles; color bright green, a great producer and of excellent quality. It is for producing medium-sized pickles that this variety is so highly esteemed. If the fruits are gathered as soon as large enough, the vines will continue bearing through a long season.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 85c

**JAPANESE CLIMBING.**—A vigorous grower, can be trained on a trellis or the garden fence, thereby saving ground space. Fruit from 12 to 16 inches long, dark green and smooth. Flesh pure white, crisp and tender.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

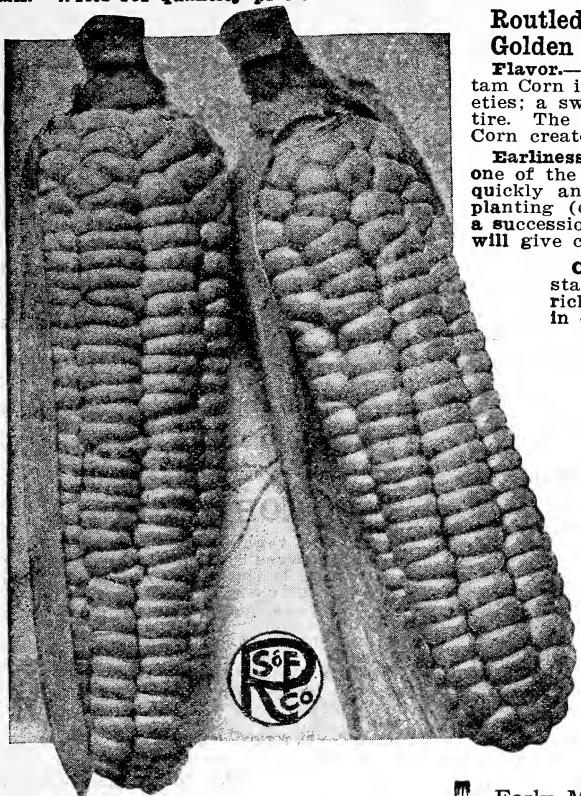


Boston Pickling.

**USE WONDER.**—So many of our customers tell us of the wonderful results, the increased yield and quick growth obtained by using our Odorless "Wonder" Fertilizer, that we again call YOUR attention to it. CHEAPEST BECAUSE IT'S THE BEST. See page 34.

## Selected CORN—SWEET OR SUGAR Northern Grown

Packet and single pound prices only prepaid. Add postage to 10 lb. prices if wanted by mail. Write for quantity price.



### Boutledge Selected Strain Golden Bantam.

#### Early Evergreen

This fine variety is 10 to 12 days earlier than Stowell's Evergreen and yields large, handsome, 10 to 12-rowed ears. An excellent variety to follow the first early kinds. Near Portland it will make a late or main crop variety.

**Large pkt. 10c; lb. 25c; 10 lbs. \$1.75**

#### Peep o' Day

Extremely early, very productive and of excellent flavor and quality. Ears medium sized but always well filled. Stalks quite dwarf and can be planted quite close, thereby securing a large crop off a small space. An ideal white sweet corn for the home garden.

**Large pkt. 10c; lb. 25c; 10 lbs. \$1.50**

#### Portland Market

An Oregon introduction; the earliest large earsred sweet corn and very productive. It's large well-filled ears, together with its plump, sweet grains of purest white, makes it a most profitable home or market variety.

**Large pkt. 10c; lb. 25c; 10 lbs. \$1.75**

**WHITE COB COREY.**—Quite early and of good size. Excellent quality; good for main crop and market.

**Large pkt. 10c; lb. 20c; 10 lbs. \$1.25**

#### Routledge's Selected Golden Bantam

**Flavor.**—Without exception, Golden Bantam Corn is the richest in flavor of all varieties; a sweet corn of which one will never tire. The first trial of this delicious Sweet Corn creates a taste "like more."

**Earliness.**—Golden Bantam Sweet Corn is one of the earliest sweet corns. It matures quickly and is suitable not only for early planting (on account of its hardness), but a succession of sowings may be made which will give continuous supply until fall.

**Color.**—When picked at the proper stage of its growth the kernels are a rich, creamy yellow and unsurpassed in quality.

**Growth.**—Being dwarf in its growth, with stalks small in size, it can be planted quite close, and a large crop may be obtained on a small area. The ears are 8 to 10-rowed, and 6 to 7 inches in length—just the right size to handle at the table.

**The Best Ever.**—We have yet to hear of one who has grown Golden Bantam Sweet Corn and was not well pleased with it. From all points come letters from pleased customers. Remember our selected strain is northern grown, better flavored and truer than local or southern seed.

**Price:** Large pkt. 10c; lb. 25c; 10 lbs. \$1.65.

#### Early Minnesota

This old and deservedly popular variety is one of the best early sorts for the market and private garden.

**Large pkt. 10c; lb. 20c; 10 lbs. \$1.25**

#### Early Mammoth

Medium early, one of the very best varieties to plant for home garden or market. Ears large and well filled, sweet and of good quality. Planted early it will produce a large, profitable crop.

**Large pkt. 10c; lb. 20c; 10 lbs. \$1.25**

#### Black Mexican

An extra fine variety, unsurpassed for sweetness. Seed bluish-black when ripe. Highly praised.

**Large pkt. 10c; lb. 25c; 10 lbs. \$1.50**

#### Stowell's Evergreen

A good main crop or late sort. Remains longer in green state than any other. Very large ears, with deep grains, and remarkably sweet. Locally it must be planted early to mature. Planted extensively for green feed for stock.

**Large pkt. 10c; lb. 25c; 10 lbs. \$1.25**

#### POP CORN

**WHITE RICE.**—Most popular and profitable kind; short ears, white, pointed kernels.

**Large pkt. 10c; lb. 20c; 10 lbs. \$1.25**

## CORN SALAD

**Fetticus or Lamb's Lettuce.**—This is a hardy winter salad, the small leaves being served like lettuce during the cool fall and early winter months. It does not succeed during warm weather, and the seed should be sown thinly in drills during August, September, and October to supply fresh leaves during the cool fall and winter months. It is quite hardy, and after cold weather sets in can be protected by a thin mulch of soft hay or straw.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 75c

## CELERIAC

**Turnip Rooted Celery.**—The roots, which are the edible portion, keep well for winter use and are excellent for soups and stews. They are also cooked and sliced as a salad. Sow seed at the same season and give the same treatment as any root crop.

**LARGE ERFURT.**—An improved form, producing large, smooth roots, which are nearly round.

Pkt. 5c; oz. 25c; 4 oz. 75c

## EGGPLANT

Sliced and fried takes the place of meat. Culture same as for tomatoes.

**NEW YORK IMPORTED SPINELESS.**—Considered the best variety. Oval shaped, deep purple, large size and fine flavor.

Pkt. 10c; ½ oz. 25c; oz. 40c; 4 oz. \$1.25

## ENDIVE

This plant furnishes an attractive and appetizing salad for the fall and winter months by repeated sowings a supply may be had nearly all the year round. Useful in flavoring soups, stews, etc. Makes delicious greens if cooked like spinach. Cultivation same as for lettuce. The bleaching of Endive is brought about by drawing the leaves together into a head and tying them and this should be done a month before it is wanted for table use.

**BROAD LEAVED BATAVIAN.**—Leaves are broad, thick, green, more or less twisted and waved with white mid-ribs. It forms large hearts, which when blanched, form one of the best winter salads. Crisp, tender and fine flavor.

Pkt. 5c; oz. 15c; 4 oz. 45c

**GREEN CURLED.**—The hardest of all, with beautifully curled dark green leaves, tender and crisp.

Pkt. 5c; oz. 15c; 4 oz. 40c

**WHITE CURLED.**—Very tender and light green, blanches easily, very ornamental.

Pkt. 5c; oz. 15c; 4 oz. 50c

## HORSE-RADISH ROOTS

Will form radishes of large size in one season's growth. For prices, see Vegetable Plants and Roots, page 98.

## KALE, or BORECOLE

This is a popular boiling-green resembling cabbage in flavor. The plant is entirely hardy in well-drained soil and can be grown easily from seed planted during the summer and fall months. With the tall varieties it is customary to pull off the lower leaves and let the plant grow on to furnish a continuous supply. The sweetness and flavor of these greens are improved by freezing weather.

**DWARF GREEN CURLED.**—Beautifully curled, bright green leaves, tender and of fine flavor.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 85c

**TALL GREEN CURLED.**—Grows about 2 feet high; leaves dark green; curled and wrinkled; very hardy.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 85c

**THOUSAND-HEADED.**—For stock feeding. See Field Seeds, page 34.

## KOHL-RABI

A delicious vegetable. In growth this is half-way between cabbage and turnip; the edible portion is the large bulb which forms on the stem above the soil. By making successive sowings, tender bulbs may be had throughout summer and fall, and are highly esteemed for their mild, delicate, cabbage-like flavor. Slice and boil, discarding the hard lower part of bulb. Sow in drills or raise and transplant like cabbage 6 to 10 inches apart.

**EARLY WHITE VIENNA.**—Extremely early, medium size, excellent quality.

Pkt. 5c; oz. 25c; 4 oz. 70c

## LEEK

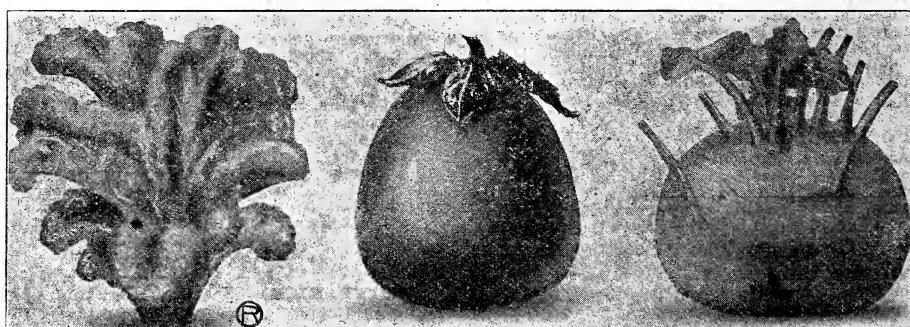
Belongs to the onion family and culture is about the same. Hardy, and freezing improves the flavor. Hill up to whiten.

**CARENTAN.**—Mild and sweet; largest variety; hardy and of the finest quality.

Pkt. 5c; oz. 20c; 4 oz. 50c

**AMERICAN FLAG.**—Very broad, thick stems of good flavor.

Pkt. 5c; oz. 20c; 4 oz. 50c



Tall Curly Kale.

Egg Plant.

Kohl-Rabi.

On Cucumber and Garden Plants use "Bug Death" for Insects (see page 103), and "WONDER FERTILIZER," (see page 34), and you will be more than pleased with results.

## LETTUCE

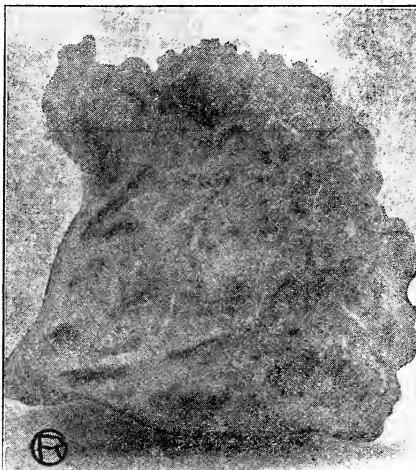
### Grand Rapids

Very popular with private gardeners and as a lettuce for greenhouse forcing. It will stand shipping better than most curled sorts. Of quick growth and stands for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large, bright green leaves, finely crimped and ruffled; rather thin, good flavor, crisp and tender. Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

**SIMPSON'S EARLY CURLLED.**—A very extensively used early loose-leaved, or clustering variety. Leaves light green, slightly frilled, crisp, sweet and tender.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

**EARLY PRIZE HEAD.**—A large, clustering, non-heading lettuce, most excellent for the home garden and undoubtedly the most easily grown variety in cultivation. It is too tender, however, to stand shipping or handling on the market. Leaves finely curled and crumpled, bright green tinged with brownish red, very crisp, tender and sweet. Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00



Grand Rapids.

### Trianon Cos or Romaine

**EARLY WHITE COS—Self Folding.**—Distinct in having long, narrow, spoon-shaped leaves, folding into loose, sugar-loaf-shaped heads which blanch better by having the outer leaves drawn about them and tied. Leaves yellowish white, crisp, tender and of a distinct and pleasing flavor.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.50

### Big Boston—Improved

Plants large, very hardy and vigorous. Leaves broad, comparatively smooth, wavy at edges, thin, very firm and crisp; color bright light green, slightly tinged with reddish brown. Grown extensively in the South for shipment north in the winter. It usually heads up under cold weather conditions better than any other variety.

Pkt. 5c; oz. 20c; 4 oz. 50c; lb. \$1.75

### HANSON

**Improved Hard Heading Stock.**—The leading head lettuce. We can recommend this as one of the very best. Heads green outside and white inside; grow to a remarkable size; very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

Uncas, Wn., May 18, 1915.

Routledge Seed & Floral Co.

Gentlemen: I planted twelve varieties of Lettuce this spring and the R. R.'s Wonderful is worth more than all the other eleven varieties put together. Be sure not to substitute, as I want only that kind.

Yours truly,  
J. A. SHADE.

### R. R.'s Wonderful

A reselected, hand-picked strain of the original New York or Wonderful. Our grower has given this stock special attention and it is a wonderful strain. It produces immense heads of closely folding ruffled leaves. The heart blanches beautifully and is crisp, tender and delicious. A robust variety, rooting deeply and thus able to resist hot, dry weather; slow to seed and a sure header. The outer color is of a distinct apple-green. A rapid grower and unsurpassed as a home or market lettuce.

Pkt. 10c; 1/2 oz. 20c; oz. 30c;  
4 oz. 75c; lb. \$2.50.

READ REPORT ABOVE.

R. R.'s Wonderful.

**A NEW STRAWBERRY.**—Read about the wonderful "Marvel," a new variety of sterling merit, most delicious of all—page 96.

## LETTUCE—Continued

### R. R.'s Tender Crisp

A distinct and extra choice variety for those who like curly, crisp, tender Lettuce of the finest quality.

Grows to a large size, makes most desirable heads of pleasing appearance, and retains its crispness and mild flavor to a greater degree during the hot summer months than any other crisp-head variety. While especially adapted for midsummer, it is most desirable also for spring and fall. The plants are of quick, strong growth; the leaves are of a soft, bright green, growing closely around the heads, which are tightly folded and blanched to a very white, and crisp and brittle as could be desired.

Pkt. 10c;  $\frac{1}{2}$  oz. 15c; oz. 25c; 4 oz. 65c; lb. \$2.00.

### NEW YORK (Los Angeles)

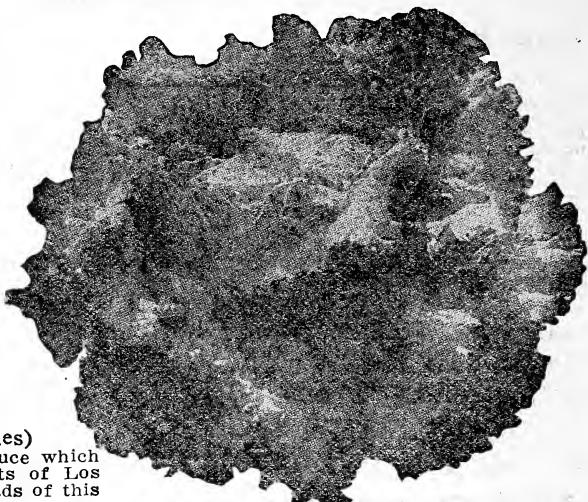
A large, crisp, tight-heading lettuce which is a great favorite in the markets of Los Angeles and San Francisco. Carloads of this variety are shipped by California growers and it brings the highest prices. The quality is the finest, and is an excellent lettuce in every respect.

Pkt. 5c; oz. 20c; 4 oz. 65c; lb. \$2.00

### Early May King

The plants are of quick growth, practically all head and extremely handsome. From early spring plantings in the open ground they grow quickly to a diameter of 6 to 7 inches with the broad, light-green outer leaves folding closely about the round solid head; in cool weather the edges of these outer leaves are lightly tinged with brown. The inner leaves, (practically the entire head) are blanched to a rich golden yellow and have a specially fine, rich, buttery flavor. You can plant very early in the spring, and again during August and September.

Pkt. 5c; oz. 20c; 4 oz. 50c; lb. \$2.00



R. R.'s Tender Crisp Lettuce.

### CALIFORNIA CREAM BUTTER

A very popular variety for autumn and winter use. Forms a very large head, which is very buttery and of a rich golden yellow inside. The leaves are thick and of bright green, slightly tinged with brown on top of head.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.25

### IMMENSITY

A very large-heading variety, one of the largest of the cabbage sorts; larger than California Cream Butter, which it resembles in color and shape. It is especially adapted for planting in the fall and winter, and makes a fine, tender, buttery head.

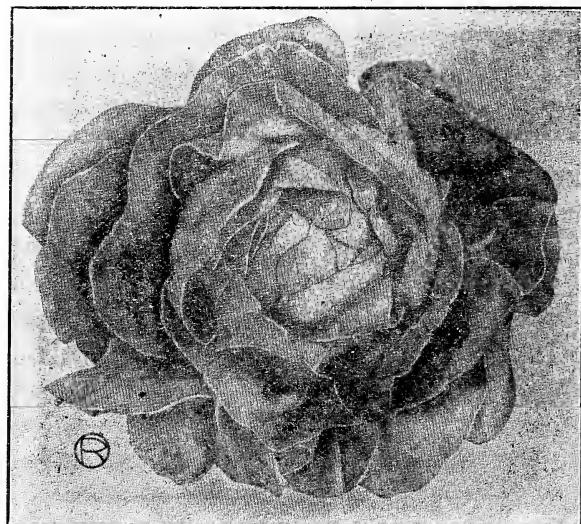
Pkt. 10c; oz. 15c; 4 oz. 40c; lb. \$1.50

### Way-a-head

#### Extra Early

A new lettuce showing a remarkable combination of earliness, firm heading character, handsome appearance and fine quality. Both in cold-frames early in the spring and in the open ground—in spring, summer and early fall months—it has proved to be not only the earliest and one of the surest heading of all early lettuce, but also of the very finest quality. It is not only earlier than May King and other fine early varieties, but the tightly folded heads are generally larger in size. The outer leaves are a light green, with the inner head finely blanched to a rich buttery yellow. We urge you to try this new variety (see cut).

Pkt. 10c;  $\frac{1}{2}$  oz. 20c; oz. 35c; 4 oz. 75c.



Way-a-head—Extra Early.

**PLANT SMALL FRUITS** around your garden. What's nicer than delicious fresh fruit, fresh from your garden? See Fruit Department, pages 93 to 97.

## MUSKMELOM

### NETTED ROCK OR ROCKY FORD

The most popular and best seller among Muskmelons.

The fruit is oval and completely covered with a beautiful lace-like netting. Flesh very thick; green, very sweet, luscious, melting and superb flavor. The fruit is wonderfully uniform in shape and quality. The favorite everywhere.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25.

**BURRELL'S GEM** — Select Strain.—A new, medium-sized, oval variety, well ribbed and covered with a fine grayish netting and having reddish orange flesh of fine, spicy flavor, sweet and delicious, distinct flavor. There is a growing demand here for the fine-grained, smooth, salmon, red-fleshed Muskmelons.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25.

**THE HOODOO**.—One of the best of recent introductions. It is early and prolific. The fruit is of medium size, the seed cavity very small, the rind very thin indeed, and the edible fleshy part thick and meaty. It is of orange or salmon color, the type much preferred now; but its great charm is its flavor, which is par excellence. Test it.

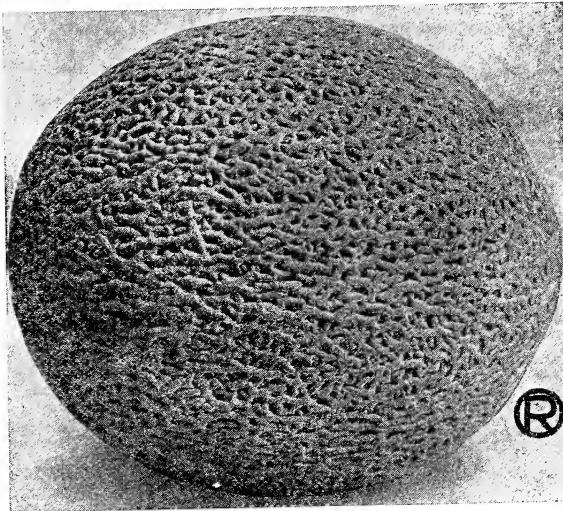
Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50.

**MONTREAL IMPROVED NUTMEG**.—Valued for its size and delicious flavor. Round in shape, with remarkably thick green flesh. One of our handsomest varieties.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

**OSAGE, OR MILLER'S CREAM**.—Medium to large, flesh thick, deep salmon, of excellent quality, rich and sweet; skin dark green, slightly netted and ribbed. A favorite variety for the later markets.

Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25



Netted Rock—Rocky Ford.

**LARGE YELLOW CANTALOUE**.—A distinct type and very popular with all who have tried it. The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish green, very sweet, crisp and delicious.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.25

### Golden Beauty Cassaba

#### Fall and Winter Muskmelons.

Skin wrinkled, flesh thick, excellent flavor and fine aroma. When nearly ripe pick and stow away in a cool, dark place until the rind becomes slightly softened and moist. Melons will actually keep until February.

Pkt. 10c; oz. 25c; 4 oz. 75c; lb. \$2.50

## WATERMELON

### ROUTLEDGE'S OREGON PRIZE

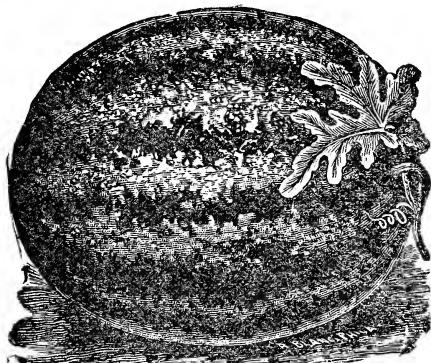
We offer this new Melon with the assurance that it is not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown.

The flesh is of a deep scarlet; rind thin, and on this account is not a particularly good shipping sort, but is emphatically the variety for home use and sale. It will ripen in altitudes where it has not been thought possible to mature a good watermelon.

Pkt. 5c; oz. 15c; 1/4 lb. 40c; lb. \$1.25

**Cole's Early**.—One of the best early sorts; medium size, green skin and red flesh.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c



Routledge's Oregon Prize.

**Citron, Red Seeded**.—Flesh white and solid, used exclusively for pickles and preserves.

Pkt. 5c; oz. 15c; 4 oz. 35c

**KLECKLEY'S SWEET**.—Unsurpassed for home use or near markets. Vine vigorous and productive; fruit of medium size, oval; color dark green; flesh very bright, rich red and exceedingly sweet.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 85c

**Cuban Queen**.—A very vigorous grower; early, very solid and heavy; of most delicious flavor.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c

Seed and Reference Tables, Amount to Plant, etc., see complete reference tables inside back cover. Always refer to "Index," pages 2-3, for anything wanted.

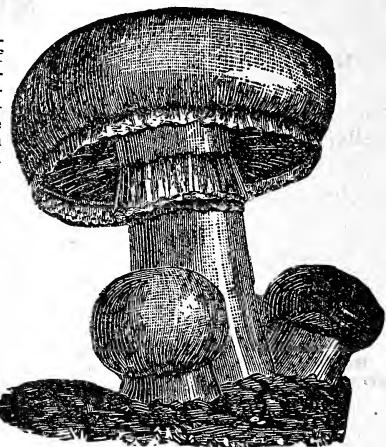
## MUSHROOM SPAWN

**LAMBERT'S PURE CULTURE SPAWN.**—Mushrooms may be grown in any place where conditions of temperature and moisture are favorable. A shed, cellar or cave may be utilized to advantage for this purpose. It is essential that the temperature be maintained from 53 to 60 degrees F., and that the moisture be properly regulated. Lambert's Pure Culture Spawn is far superior to the old-style varieties, and much better results can be obtained from its use. The bricks should be broken into pieces about two inches square and planted from 10 inches to a foot apart. Bricks weigh from 18 to 20 ounces. A brick will spawn 10 square feet of bed. With Lambert's Pure Culture Spawn it is impossible to raise poisonous mushrooms.

**DIRECT SPAWN.**—Latest and best. **Mammoth White, Cream White or Bohemian Brown.**

Price, per brick, not prepaid, 25c; 10 bricks, \$2.25; add postage at rate of 1½ lbs. per brick. Write for quantity price.

**MUSHROOM CULTURE.**—We have a 32-page booklet on Mushroom Culture, nicely illustrated, for 25c, postpaid. Free with an order for 10 bricks.



## MUSTARD

The leaves of mustard make excellent greens of sharp, pungent flavor, and are cooked the same as spinach or beet leaves.

**SOUTHERN GIANT CURLED.**—Large variety, forming a great mass of beautiful leaves, which are ruffled and finely curled on the edges; hardy, vigorous, highly recommended. Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 75c

**White English.**—Light green variety; tender leaves; seed light yellow.

Pkt. 5c; oz. 10c; 4 oz. 15c; lb. 40c



Oregon Yellow Danvers Onion.

## OKRA

**IMPROVED DWARF GREEN.**—Very productive; long, slender green pods. Pkt. 5c; oz. 10c; 4 oz. 25c

## ONION

Highest Quality—True Seed

### AILSA CRAIG

A magnificent variety of recent English introduction. Unsurpassed for exhibition purposes.

Very large, oval shaped, with straw-colored skin. When grown to perfection will weigh from 2½ to 3 pounds. Has attained great popularity among private gardeners for its all-around superiority and as an exhibition variety. Pkt. 10c; oz. 35c; 4 oz. \$1.00

### Oregon Yellow Danvers

This is the variety planted almost entirely in the Northwest, particularly in Oregon. The largest crops of onions and the best keepers, bringing the highest prices in the Pacific Coast and Middle Western markets, are the Oregon Yellow Danvers. The bulbs are uniformly large, of a half-globe shape, with small necks. It is the earliest, largest in size, most perfect in shape, the largest keeper and the best keeper, and as a market or table onion cannot be excelled. Our seed is grown specially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seeds can be obtained at the following prices:

Pkt. 5c; oz. 20c; 4 oz. 60c; lb. \$2.00.

**NOTE—NEW CROP ONION SEED** is very short and 1916 prices are much higher. Beware of **LOW PRICED SEED** this year, for it will necessarily mean **OLD SEED**.

**ONION—Continued****Crystal White Wax**

A large, pure white, flat onion. During the last few years it has become very popular. Extremely early and one of the mildest and sweetest of all. It is very fine for slicing, the color being so clear and pure. We offer the genuine imported true seed.

Pkt. 10c; oz. 40c; 4 oz. \$1.00; lb. \$4.00

**Extra Early Red Flat**

The first Red Onion to ripen. A medium-sized, flat variety; an abundant producer and very uniform in shape and size; fine grained, mild flavored, and comes into use nearly two weeks earlier than the Large Red Wethersfield; very desirable for early market use.

Pkt. 5c; oz. 25c; 4 oz. 65c; lb. \$2.25

**Routledge Prize Taker**

This onion has become a great favorite on account of its large size and great solidity. It is perfectly globe-shaped, with straw-colored skin; the necks are very small and the onions always ripen up hard. An excellent keeper, exceedingly fine flavor, grows to an enormous size, onions weighing 5 pounds having been grown from seed the first year.

Pkt. 10c; oz. 25c; 4 oz. 65c; lb. \$2.25

**Yellow Globe Danvers**

One of the most extensively used yellow onions. Bulbs of good size, uniformly globe-shaped, with small neck, and ripen very evenly. Flesh white, crisp and of mild and excellent flavor. An enormous yielder and a fine keeper. We offer a select strain, unsurpassed.

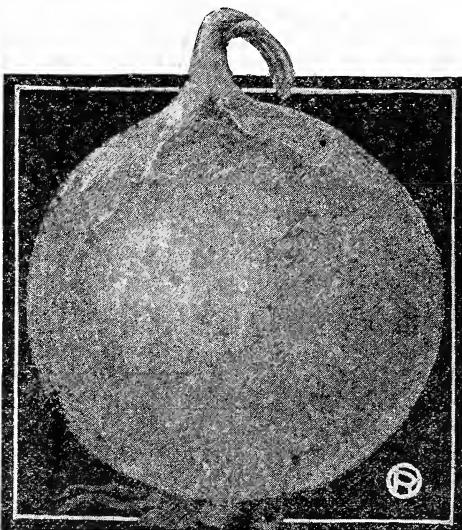
Pkt. 5c; oz. 25c; 4 oz. 65c; lb. \$2.25

**YELLOW DANVERS.**—A popular and well-known variety. Earlier and flatter than above. Excellent for bunching green.

Pkt. 5c; oz. 20c; 4 oz. 50c; lb. \$1.75

**WHITE BARLETTA (Queen).**—An early white variety; prized for early gardens and pickling on account of its small size, pure white skin and remarkable keeping qualities. Of very quick growth, flat shaped and fine, mild flavor.

Pkt. 10c; oz. 25c; 4 oz. 65c; lb. \$2.25



**Routledge Prize Taker.**

**Large Red Wethersfield**

The Standard variety of the red onions. Of large size, half globe, a heavy yielder, and one of the best for keeping. Skin a deep purplish red, smooth and glossy; will do better on fair upland soil than most varieties; flesh white, rather strong.

Pkt. 5c; oz. 25c; 4 oz. 75c; lb. \$2.50

**Australian Brown**

Its remarkable keeping qualities and handsome appearance makes it very desirable. Resembles the Yellow Danvers in general appearance, but has a clear, amber-brown skin. It matures early, ripens uniformly and is a good, long keeper.

Pkt. 5c; oz. 25c; 4 oz. 65c; lb. \$2.25

**Southport White Globe**

An enormous yielder and superb keeper; perfect globe-shaped, very large, clear white skin and considered one of the handsomest varieties grown. We offer the very finest stock obtainable.

Pkt. 10c; oz. 25c; 4 oz. 65c; lb. \$2.25

**WHITE PORTUGAL or Silverskin**

The finest flavored of all the white-skinned onions. Quite early, flat shaped and a fine cropper. Planted thickly in broad drills makes fine pickling onions.

Pkt. 5c; oz. 25c; 4 oz. 65c; lb. \$2.00

**ONION SETS**

**BOTTOM ONION SETS.**—These small onions are grown from seed that have been sown too thick to attain a large size. The small onions (about  $\frac{1}{2}$ -inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table.

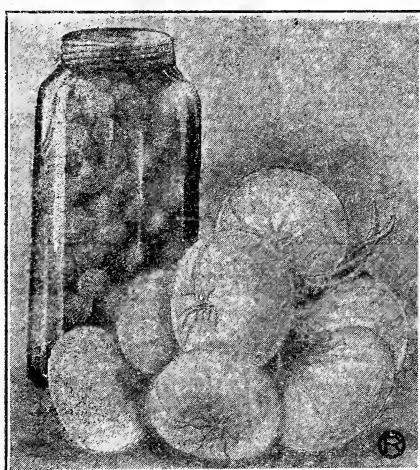
Per lb. 15c; prepaid 20c, or 5 lbs. \$1.00.

Write for low prices by the 100 lbs.

**TOP SETS.—Lb. 25c, postpaid.**

**SHALLOTS.**—Valuable for bunching or for an early crop. Each bulb makes several small onions, which are to be pulled off when large enough.

Per lb. 25c; 5 lbs. \$1.00, prepaid



Barletta.

**DON'T Practice false economy by buying low-priced seeds. Our motto—"HIGHEST QUALITY," price as low as we can make it.**

**"Highest Quality"****GARDEN PEAS****Hand Picked**

There is a vast difference in "strains" of garden peas. You will find our stock "very superior," healthy, vigorous and true, much better than the average seed sold by wholesale seed dealers and jobbers. This year we offer some new English introductions that we have imported for our private trade—try them if you want "Highest Quality."

Packet and single pound prices only are prepaid—add postage to 10 lb. prices if wanted by mail. **WRITE FOR QUANTITY PRICES.**



Duke's Delight (Page 23).

**Richard Seddon**

The pods are deep green, crowded with from 7 to 9 large peas of very fine color and flavor. Grows from 16 to 20 inches in height. An extremely early type, maturing only a week later than the Alaska, when sown at the same time. A splendid all-around early variety. On account of its immense productivity, evenness of maturity, compact well filled pods and excellent color and quality, it is especially desirable for canning purposes.

**Large pkt. 10c; lb. 25c; 10 lbs. \$2.00**

**Gradus**

Extra early. This popular large-podded wrinkled pea of finest quality matures pods only two or three days later than the small-podded round-seeded extra earlies. Vines four feet high. It produces uniformly large pods, measuring from four to four and a half inches in length, nearly round, and well filled with very large handsome peas of the finest flavor.

**Large pkt. 10c; lb. 25c; 10 lbs. \$1.50; 25 lbs. \$3.50**

**BURPEE'S "BLUE-BANTAM."**—Unequalled for extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average 15 inches in height and carry really enormous crops of large, deep bluish-green pods. The handsome pointed pods average 4 inches long and are tightly packed with 7 to 8 extra large, deep bluish-green peas. These peas are not only large in size, but of **most luscious flavor**. The pods are ready to pick as early as American Wonder, while double the size—in fact, they average almost as large as Gradus. If sown thinly—say 4 inches between the seeds in the row—the produce will astound even experienced gardeners.

**Large pkt. 15c; lb. 35c; 10 lbs. \$2.75**

**Sherwood (King Edward)**

A splendid new pea, produces in greatest profusion the largest pods of any early dwarf variety and the pods are filled with 8 to 10 large deep-colored peas of the most delicious flavor and quality. Very hardy. Height 15 to 18 inches.

**Large pkt. 15c; lb. 30c; 10 lbs. \$2.25**

**ALASKA.**—An extra early, exceedingly hardy pea. Pods of perfect shape, well filled with smooth peas of unrivaled quality. Height 2½ feet. Can be planted much earlier than the wrinkled peas.

**Large pkt. 10c; lb. 20c; 10 lbs. \$1.25**

**FIRST AND BEST.**—Pods well filled with round, smooth peas of excellent flavor. Extremely early, productive and hardy. Height 2½ feet. Can be planted much earlier than the wrinkled peas.

**Large pkt. 10c; lb. 20c; 10 lbs. \$1.25**

**American Wonder**

Of extremely dwarf growth, only 8 to 10 inches high, this is nearly as early as Alaska. The pods, while of small size, are filled with luscious, large, wrinkled peas of first-class quality.

**Large pkt. 10c; lb. 25c; 10 lbs. \$1.50**

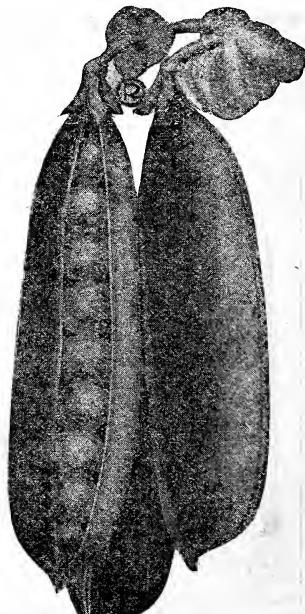
**PREMIUM GEM.**—Grows about 15 inches high, and is among the earliest dwarf, green, wrinkled sorts. The quality is unsurpassed; an abundant bearer.

**Large pkt. 10c; lb. 20c; 10 lbs. \$1.50**

**Little Marvel**

An extremely valuable variety, especially suited to small home gardens, and early market. It matures very early and produces large crops. Vines 15 to 18 inches high. The pods are dark green, fair sized, produced in pairs and are closely filled with 6 to 7 peas of **extra fine flavor**.

**Large pkt. 10c; lb. 25c; 10 lbs. \$1.85**

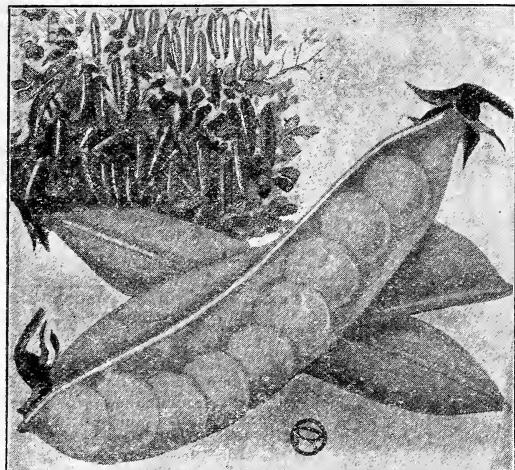


Richard Seddon.

Market Gardeners who buy Peas in quantity should write us for prices, stating variety and amount wanted. Single pound prices only are prepaid. See notes top of this page.

## Highest Quality Garden Peas—Continued

Remember, a little extra cost at planting time will bring "dollars" or greater satisfaction at harvest time. Packet and single pound prices only, prepaid. **WRITE FOR QUANTITY PRICES, STATING KIND AND AMOUNT WANTED.**



**Prosperity.**

### Duke's Delight

A new dwarf, extra early Pea of unusual value (see cut page 22).

Duke's Delight easily outclasses all other first early dwarf peas such as Notts and Gems in productiveness, size and fullness of pods, color, sweetness of flavor and general perfection. Height 12 to 15 inches. Be sure and try Duke's Delight. Read the report below. **Large pkt. 15c; lb. 30c; 10 lbs. \$2.25**

Mt. Tabor, Ore., June 15, 1915.

Routledge Seed & Floral Co.

Gentlemen: Your new, early peas, "Duke's Delight" are certainly O. K. They are very, very productive and of highest quality. I planted in February and had green peas very early.

Yours truly,  
WM. DUNGEY.

### GOOD LUCK—Te-a-wha

You will certainly be delighted with this new variety. Sturdy, dark green vines, 2 feet high, covered with large pods containing 9 to 11 superb flavored peas that retain their color and flavor longer than most kinds. Ten days later than Duke's Delight. Excellent for the home or market gardens.

**Large pkt. 10c; lb. 30c; 10 lbs. \$2.25**

### DWARF SUGAR—EDIBLE PODS

A great favorite with many. In the Edible-Podded or Sugar Peas the pods are gathered, broken and cooked like string-beans when the peas start to develop in the pod or have reached about half their full size. Dwarf Sugar grows about 2 feet in height, producing a heavy crop of small flat pods about 3 inches in length.

**Large pkt. 10c; lb. 25c; 10 lbs. \$2.00**

Be sure you read about Mulford's Culture for inoculating pea seed. Increases the yield and improves the soil. (See page 36.)

### R. R.'s Prosperity

The Earliest Large Podded, Sweet Garden Pea to date.

A reselected New Zealand grown strain of Gradus. Healthier and stronger.

This grand, large podded, extremely early, prolific variety, is vigorous and robust, growing to a height of 4 feet. It is exceedingly early for a wrinkled variety, being only a few days later than the earliest smooth sorts.

The pods are very large, and are invariably well filled with from 8 to 10 sweet, luscious, tender wrinkled peas of large size and delicious flavor.

The peas remain tender and sweet for some time after they are large enough to use.

**Large pkt. 15c; lb. 30c; 10 lbs. \$2.25; 25 lbs. \$4.00.**

### Routledge Prize

Largest pods, sweetest peas, most productive main crop variety. SEE NEXT PAGE.

### DWARF TELEPHONE—Daisy

The vines, though growing only about 18 inches in height, are very stout and generally bear a good crop of large well filled pods. The pods average 5 inches in length, containing 7 to 9 large peas of a light green color, which are tender and sweet.

**Large pkt. 10c; lb. 25c; 10 lbs. \$1.75**

### Gladstone

A grand new second-early; productive of large, luscious, wrinkled peas.

A new English variety of "highest quality." Aside from Routledge Prize it cannot be excelled for a main crop variety. The strong, sturdy vines grow about 3½ feet and are simply covered with extra large long, pointed and curved pods, that are always full to the end, of large, rich, luscious peas, the taste of which the average gardener has never tasted. Try it; you will be delighted.

**Pkt. 15c; lb. 30c; 10 lbs. \$2.25; 25 lbs. \$4.50**

### IMPROVED STRATAGEM

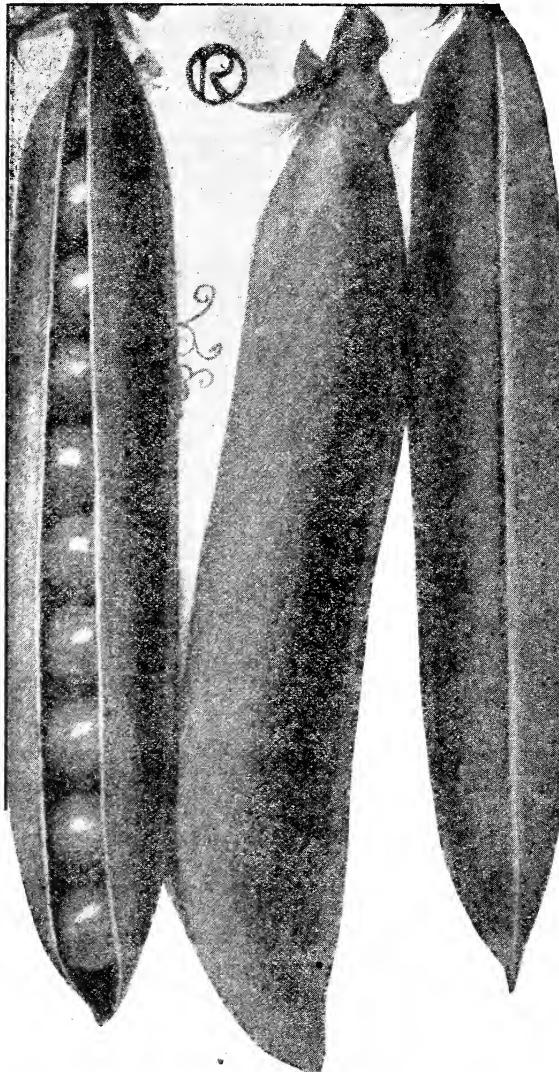
A very productive semi-dwarf variety with large leaves and large pods. The peas are dark green, wrinkled, and large. It is planted in large quantities by gardeners for market. In quality it is unsurpassed, the peas when cooked being of the most delicious sweetness. Vines grow 18 inches to 2 feet high, and very stocky.

**Large pkt. 10c; lb. 20c; 10 lbs. \$1.50; 25 lbs. \$3.25.**

### Special Pea Offer

To give you a continuous supply of delicious peas at a special price, we offer 1 large packet of **RICHARD SEDDON, DUKE'S DELIGHT, SHEWWOOD, GOOD LUCK,** (all dwarf kinds) for only 40c, postpaid; or **R. R.'S PROSPERITY, GLADSTONE** and **ROUTLEDGE PRIZE**, (all tall kinds) for only 30c, postpaid. **YOUR SELECTION** of these seven kinds, any 4 pkts. 45c, or 4 1-lb. pkgs. \$1.00, postpaid.

**Peas—Continued—Large Podded, Late or Main Crop**  
 Packet and single pound prices only, postpaid. Special quantity price on request.



Routledge Prize.

### PARSLEY

**CHAMPION MOSS CURLED.**—An English strain, with beautiful moss-curled foliage; vigorous grower.  
 Pkt. 5c; oz. 15c; 4 oz. 30c; 1b. 90c

**ARLINGTON EXTRA CURLED.**—Very choice strain, having the greatest possible curl to the leaves and the darkest green color; a very vigorous grower; will stand heat and drought better than any other.  
 Pkt. 5c; oz. 15c; 4 oz. 40c; 1b. \$1.25

**PLAIN LEAF.**—Single-leaved variety, very fine and excellent flavor.  
 Pkt. 5c; oz. 15c; 4 oz. 35c

TREAT your PEAS, BEANS and SWEET PEAS with Mulford's Nitrogerm Cultures. Makes them healthy and vigorous, insures a full crop. See page 36.

### Routledge Prize

A new, sweet, wrinkled, mammoth podded Pea of extra value.

This reselected, new strain, grown especially for us in New Zealand, will be found true to name. A sturdy, healthy grower. Vines and pods are a deep, rich green. A bushel of Routledge Prize pods will shell out nearly twice as many peas as a bushel of Telephone. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 11 large peas of the **richest flavor**. This variety grows about 4 feet high and, as an abundant cropper is superior to all other sorts.

Nothing in the line of peas excels the Routledge Prize in richness, sweetness and flavor. We are sure our customers will agree with us after testing this new pea. Try them and report results if you will.  
 Large pkt. 10c; 1b. 25c; 10 lbs. \$1.75; 25 lbs. \$4.00.

### REPORTS

Chewelah, Wn., July 20, 1915.  
 Routledge Seed & Floral Co.

Gentlemen: The Peas you sent me have just come into maturity and they are large, fine and sweet; never saw anything to equal them.

Yours truly,  
 MRS. J. C. ACHIN.

Albany, Ore.  
 Dear Sirs: All your seeds did well, especially Routledge Prize Peas; they were so strong and prolific.

Yours truly,  
 MRS. FRANK LINES.

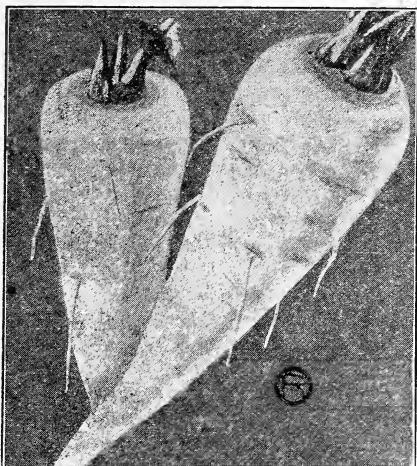
### Telephone

One of the most popular and largest peas we have. Vines attain a height of 4½ feet, bearing profusely the extra long, handsome pods; tender, sweet and superb flavor. We offer a very carefully rogued, select strain of unusual merit.

Large pkt. 10c; 1b. 20c; 10 lbs. \$1.50; 25 lbs. \$3.25.



Parsley Leaf.



Sweet Marrow Parsnip.

**PEPPER**

Plant the seed early in the spring; culture same as for tomatoes.

**Ruby King**

One of the most popular large red peppers. Plants grow 2 feet high and bear a fine crop of handsome, extra large, scarlet fruits. The flesh is quite thick, sweet, and so mild that the peppers may be eaten from the hand like an apple. Especially fine for mangoes.

**Pkt. 10c; oz. 35c; 4 oz. \$1.00**

**Large Bell or Bull Nose**

Sometimes called Sweet Mountain. The plants are vigorous, about 2 feet high, compact and very productive, ripening their crop uniformly and early. The fruits are large, with thick, mild flesh of excellent quality for use in salads and mangoes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe.

**Pkt. 5c; oz. 35c; 4 oz. \$1.00**

**RED CHILI.**—A rather small, bright red variety about 2 inches long and pointed; the pods are used in making chili sauce, and are very pungent and hot.

**Pkt. 5c; oz. 30c; 4 oz. 85c**

**CAYENNE.**—Long, red, pointed pods; very strong and used largely for making pepper sauce; popular variety.

**Pkt. 5c; oz. 30c; 4 oz. 85c**

**CHERRY RED.**—Rich, glossy, scarlet fruit at maturity; small, smooth and round; of dwarf habit.

**Pkt. 5c; oz. 30c; 4 oz. 85c**

**Our Seed are O. K.**

Aurora, Ore., March 25, 1915.

Routledge Seed & Floral Co.

Gentlemen: Egg Plant and Pepper are all up fine. I have Tomatoes 8 inches tall. Thanks for good seed, also the free seed.

Yours truly,

G. F. BARTLETT.

**PARSNIP**

While highly appreciated for the table the great value of the parsnip for stock feeding is but little known. The roots are very rich in saccharine food, adding to the richness of the milk when freshly dug and fed to cows.

**Culture.**—Sow as early in the spring as the weather will admit in drills 18 inches apart and  $\frac{1}{2}$ -inch deep, in a rich, deep soil; thin out 3 to 6 inches apart in the rows. The quality of the roots is improved by leaving them in the ground over winter for spring use.

**Sweet Marrow**

This fine new parsnip of English origin is offered with full confidence that it will become a prime favorite with all who use it. It is very fine grained and exceedingly sweet, while the peculiar "parsnip" flavor is fully preserved. The roots are unusually smooth and attractive in appearance. The best of all parsnips for the private or market gardens.

**Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 75c**

**HOLLOW CROWN.**—The most popular variety; medium length roots, very smooth and of the finest quality. Derives its name from a depression at top of crown or root; very fine table sort.

**Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 65c**

**Ever Use a Lantern?**

If you do, investigate DAD'S ELECTRIC—always ready—no danger from fire, makes "night time a light time." See page 110.

Eddyville, Ore., March 1, 1915.

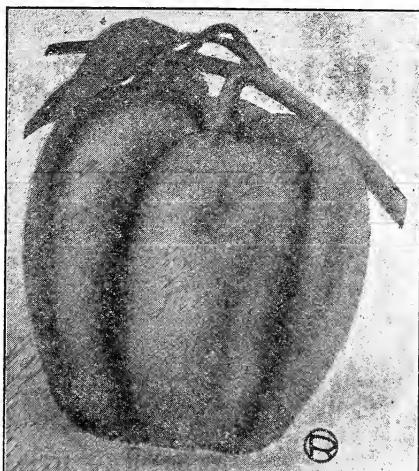
Routledge Seed & Floral Co.

Gentlemen: I bought about \$12.00 worth of garden seeds of you last year, and I am well pleased with the results. Especially the Carrots and Turnips. I grew three crops of Turnips on the same ground and had some as large as 18 pounds.

I am enclosing order for one pound of same, and will order more seeds soon.

Yours respectfully,

G. G. DONN.



Ruby King Pepper.

## PUMPKIN

### Winter Luxury

An enormously productive variety of medium size and superior keeping qualities. Of rounding shape, about 10 inches in diameter; golden russet color, finely netted, rich deep golden flesh; sweet and tender. By far the best for pies; try it.

Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00

**SMALL SUGAR.**—Fine grained, very sweet and excellent keeper. Skin deep orange yellow.

Pkt. 5c; oz. 15c; 4 oz. 30c; lb. 80c

### King of Mammoths

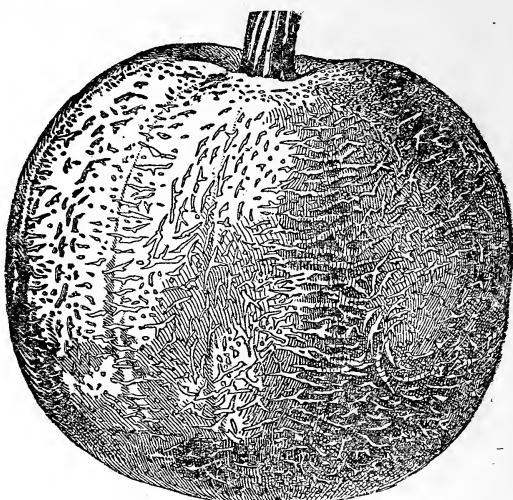
The largest of all the pumpkins; grow this variety to win the prizes at the fair.

Pkt. 10c; oz. 15c; 4 oz. 50c; lb. \$1.50

**CONNECTICUT FIELD.**—The best for field culture and excellent for stock. Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 50c

**LARGE SWEET CHEESE.**—A popular variety; fruit flattened; skin mottled light green and yellow; flesh yellow, thick and tender; very nutritious and of excellent quality; a most productive variety.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 60c



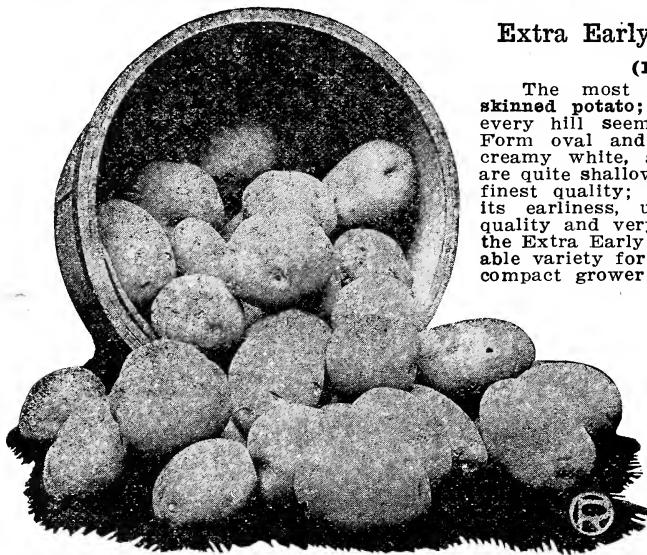
Winter Luxury Pumpkin

**DOUBLE THE YIELD AND SIZE OF YOUR PUMPKINS** by using a handful of "WONDER" Fertilizer to each hill and be sure you mix it well in the top soil. (See page 34.)

## PURE SEED POTATOES

We offer a few varieties of special merit that we recommend to our friends and customers. We think it is folly to plant ordinary or common stock. Many gardeners insist on the best vegetable seeds, but plant any old kind of potatoes, not knowing whether they are early or late. Get a start of some of our select seed stock and you will be more than pleased with the results.

**ABOUT PRICES.**—Prices are subject to important market changes. Ask for quotations on larger lots. Good, true, healthy stock of the best named Seed Potatoes are never plentiful and are always in demand. Order early, before stocks advance.



Irish Cobbler, Extra Early.

### Extra Early Irish Cobbler

(Earliest of all.)

The most reliable extra early white-skinned potato; so uniform in growth that every hill seems to ripen all at one time. Form oval and round; skin lightly netted, creamy white, and having few eyes, which are quite shallow; flesh pure white and of the finest quality; not excelled by any variety; its earliness, uniformity, large yield, fine quality and very handsome appearance make the Extra Early Cobbler a popular and profitable variety for market or home garden use; compact grower and can be planted closer.

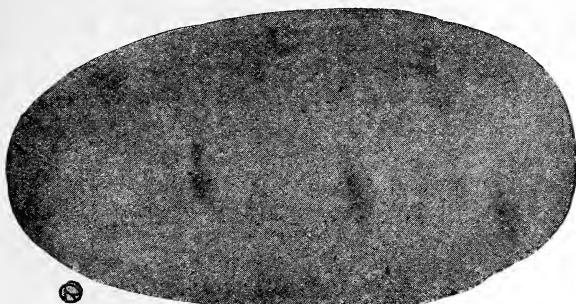
Price, not prepaid, add postage if wanted by mail, 1 lb. 10c; 4 lbs. 25c; 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.75.

### EARLY ROSE

This variety has been a great favorite for many years. Our stock is as fine as can be obtained.

Price, not prepaid, add postage if wanted by parcel post, 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.35; 100 lbs. \$2.50.

**NEW BOOK—“Practical Potato Culture.”** This 128-page book by E. A. Rogers, an authority on the subject of Irish potatoes, is up-to-date and worth reading. Price postpaid 50c or **Free** with a cash order for Seed Potatoes amounting to \$5.00 or over, or 25c on a \$2.50 order.

**Seed Potatoes—Continued—Main Crop Varieties**

Pride of Multnomah.

**American Wonder**

The American Wonder is one of the best all-around white potatoes in cultivation and very popular for early or main crop. It is practically blight-proof, a strong grower, a great producer; tubers white, uniform in size, elongated, of excellent quality. It is a potato sought after and desired by our commission men, potato buyers, shippers and dealers, therefore a most profitable sort to plant. If planted early will be ready to use as soon as Early Rose, and has the advantage of being white.

**Price, not prepaid, add postage if wanted**  
by parcel post, 5 lbs. 25c; 10 lbs. 40c; 50 lbs. \$1.35; 100 lbs. \$2.25.

**POTATO FERTILIZER.**—Have you ever tried using a good potato fertilizer, rich in phosphoric acid and potash, keeping account of the expense and the increased yield? Try it; you'll find it most profitable. The vines will be strong, healthy and productive, and the tubers even, smooth, solid and of better quality.

Use Beaver Brand "E" Potato Fertilizer, 500 lbs. or more per acre along the rows at planting time. See page 35.

**SWEET POTATO PLANTS**

Sweet potatoes do very well in many places in Oregon. Rooted plants ready in May. The young plants should be set out in May or June in hills 5 inches above the ground level and 4 feet apart. A light soil and sunny location is preferable. Have your order booked now and be sure of plants when ready.

**Plants 30c doz.; \$1.50 per 100, prepaid.**

**Pride of Multnomah**

**A Superb, New, Blight-Proof Potato.**—This new potato, originating with one of our most reliable Oregon growers, has made a record for itself very quickly, and is in great demand.

Pride of Multnomah (see illustration) is the ideal in shape and color. It is reported by many to be the heaviest yielding, most even growing main crop variety. The skin is smooth and white, eyes shallow and cooking qualities unexcelled, being fine grained and of snowy whiteness either boiled or baked. Withstands drought better than most varieties.

**Price, not prepaid, add postage if wanted**  
by parcel post, 5 lbs. 30c; 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.75.

**Burbank**

A standard commercial variety, but the stock is "run out" in many localities. We offer a select strain of "Fancy" Burbank, which is a really good potato.

**Prices, not prepaid, 5 lbs. 25c; 10 lbs. 40c; 100 lbs. \$2.00; quantity price on request.**

**RHUBARB OR PIE PLANT**

**BURBANK'S CRIMSON WINTER.**—The new variety, which has become very popular and profitable to the grower, has a delicious fruity flavor, is extremely hardy, very prolific and very quick growing. Produces good stems all winter and spring.

**Pkt. 10c; oz. 60c; 4 oz. \$1.75**

**VICTORIA, OR MAMMOTH.**—Very large; most popular variety.

**Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.50**

**RHUBARB ROOTS.**—From October to June we can always supply one, two, and often larger clumps of Rhubarb Roots. Customers will save much valuable time by ordering roots instead of seed. For prices, etc., see page 98.

**SUNFLOWER****Large Russian**

This has very large single heads borne at the top of a single unbranched stalk usually, and with much more and larger seed than the common sorts. It is used extensively for feeding poultry. The plant often grows 10 feet high. Sow seed as soon as ground is fit for planting corn, in rows 3 to 4 feet apart and 10 inches apart in row. Cultivate same as corn. When the seed is ripe and hard, cut off the heads and pile loosely in an airy dry place where they will soon cure so as to be threshed out and cleaned. This variety will yield 1000 pounds or more of seed per acre. Some species are planted largely in the flower garden for ornament. (See Flower Seeds under *Helianthus*.) **Pkt. 5c; 4 oz. 10c; 1b. 25c, postpaid;** for larger quantities inquire for prices.



Rhubarb.

**See page 98 for Roots**

"Highest Quality"

## RADISH

"Highest Quality"

**REMEMBER**—For a continuous supply of crisp, tender Radishes, sow seed every week, as they remain in "prime" condition only a few days after attaining full size. For very early or late fall planting, raise the seed bed so it will drain and be warmer.



### R. R.'s Scarlet Gem

This splendid radish is the very finest early strain of the round, bright red radishes. No other can surpass its table excellence or its beauty. The skin is bright scarlet, flesh pure white, crisp, tender and of delicious quality.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 90c

### Scarlet Turnip, White Tipped (No. 5)

A beautiful variety, deep scarlet with white tip. Very early, crisp and delicious. It is most attractive in appearance and cannot fail to give satisfaction; very popular as a market sort; very select strain.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 90c

### Early Scarlet Turnip

Small top; of quick growth; mild and crisp. Very popular.

Oz. 10c; 4 oz. 25c; lb. 75c

### French Breakfast (No. 7)

Very popular, crisp, tender and mild; grows about 2 inches long, stump rooted, tipped white.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c

### Long Scarlet (No. 2)

Grows perfectly straight and smooth, 6 to 7 inches in length. Skin scarlet, very thin; the flesh crisp, brittle and of delightful flavor; the finest long red radish.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c

flesh is a sparkling white, solid, crisp, juicy and of the mildest flavor. The bright, deep crimson color of the skin remains quite constant.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 65c

**EARLY SNOWBALL (No. 4).**—A grand improvement on the White Box or White Turnip Radish; very early, of a clear white color, solid, juicy, crisp, tender and unsurpassed in flavor.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 65c

**LONG BRIGHTEST SCARLET, WHITE TIPPED (No. 1).**—The brightest and handsomest long scarlet radish known. Roots mature quickly and continue in good condition until full grown. Of excellent quality.

Pkt. 5c; oz. 10c; 4 oz. 20c; lb. 75c

### WINTER RADISHES

#### White Icicle (No. 3)

This superb radish is pure white and most attractive. It is not only crisp and tender when young, but retains these qualities until the roots attain large size. It is ready for use almost as quickly as the early turnip-shaped sorts.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 85c

**WHITE STRASBURG.**—Even when comparatively small this variety is in good condition for use, and continues crisp and tender until matured, when the roots are 4 to 5 inches long and about 2 inches in diameter. This is considered one of the best large summer sorts.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c

**SCARLET GIANT (No. 6).**—The largest early scarlet turnip-shaped radish. The

The merits of Winter Radishes are little appreciated. These grow to large size and keep well for winter and spring use. **Sow seed in July and August. Early planting is not advisable.**

**SAKURAJIMA.**—Japanese variety; grows very long and 2 to 3 inches in diameter. The skin is smooth and white, and the flesh is always mild, crisp and tender.

Pkt. 10c; oz. 20c; 4 oz. 60c

**California Mammoth White.**—Pure white. The flesh is tender and crisp, keeping well through the winter.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00

**China Rose.**—Bright rose color, flesh firm and piquant; largest at the bottom. One of the best.

Pkt. 5c; oz. 10c; 4 oz. 30c; lb. \$1.00

**Long Black Spanish.**—Very popular; latest, as well as the hardest. Roots of medium size, oblong, black.

Pkt. 5c; oz. 15c; 4 oz. 25c; lb. 85c

**Round Black Spanish.**—Three or four inches in diameter; flesh white; good keeper.

Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c

## SALSIFY Vegetable Oyster

One of the most desirable winter vegetables. The roots when cooked are very palatable and nutritious and are served in a variety of ways. The flavor is similar to oysters. Salsify succeeds best in a light, well-enriched soil, which should be stirred to a good depth. Coarse and fresh manure should be avoided, as it will surely cause the roots to grow uneven and ill-shaped. Sow early and quite deep, giving the general culture recommended for parsnip. The roots are perfectly hardy and may remain out all winter. Frost does not injure the roots; may be stored in a pit or in a very cool cellar.

### Mammoth Sandwich Island

This variety is large and strong growing with long, smooth, white, tapering roots, and is less liable to branch than the other sorts. It is invaluable for market gardeners' use. Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25

### SPINACH

Plant in the richest soil you have very early in the spring or not until fall for winter use, as it does not do well in hot weather.

**IMPROVED THICK-LEAVED.**—A variety which grows very rapidly, forming a cluster of large, very thick, slightly wrinkled leaves of fine color and quality when cooked; best for market gardeners.

Pkt. 5c; oz. 10c; 4 oz. 15c; lb. 50c

**LONG STANDING.**—An improved variety of excellent quality for general use; slow going to seed. Remains in good condition longer than most. Dark rich green.

Pkt. 5c; oz. 10c; 4 oz. 15c; lb. 50c

**BLOOMSDALE SAVOY LEAVED.**—Very early; of upright growth; leaves broad and pointed, dark green, fine quality; grows quickly.

Pkt. 5c; oz. 10c; 4 oz. 15c; lb. 50c.

**PRICKLY WINTER.**—Very desirable; very hardy and easily grown; bears large, smooth broad pointed leaves. Color, bright green. A fine winter and spring variety.

Pkt. 5c; oz. 10c; 4 oz. 15c; lb. 50c.



Improved Thick Leaved.  
**SQUASH**

### Delicata

A perfect all-season squash. Summer and winter crop on one plant. Produces 15 to 20 fruits to a vine. Delicious chestnut flavor.

Delicata grows in vine form and ripens an enormous number of fruits of excellent quality, and of such convenient size that the entire fruit can be used at one time.

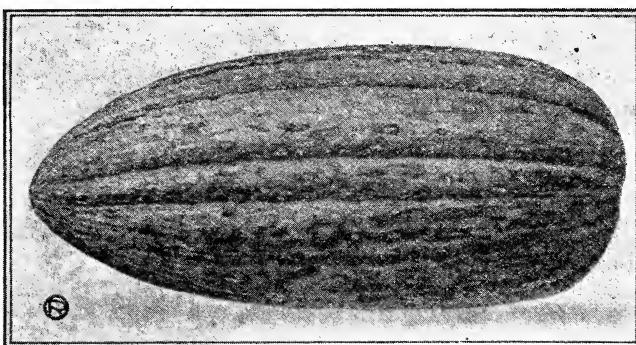
There is no sort in existence that may be used for so long a season as Delicata. It is ready almost as soon as the early summer sorts, is better flavored than the best of them, and remains in perfect condition as long as any of the keeping varieties.

Its flavor when cooked has been compared to the Sweet Potato, others liken it to roasted chestnuts, but all agree that it is delicious. The fruits are about 9 inches long, and as shown in the cut, slightly ribbed. When ripe, the ground color is deep yellow, irregularly striped and marbled with dark olive-green.

The flesh is thick, of fine texture, and pale-yellow in color. It is unexcelled for baking—the shape and size make it perfect for this purpose. When boiled it turns out dry, granular and mealy, and none is better for pies.

Its firm, substantial flesh, and abundant, satisfying flavor are unexcelled by any. (See cut.)

• Delicata Squash—Try It.



Pkt. 10c; oz. 20c; 4 oz. 50c; lb. \$1.50

## SQUASH—Continued

### Mammoth White Bush Scallop

The fruit is a beautiful, clear, waxy white; superior in size and beauty, and is quite uniformly warted. The handsomest of the scalloped squashes. The stock we offer is exceptionally true to type. **Pkt. 5c; oz. 15c; 4 oz. 30c; lb. 85c**

### Golden Summer Crookneck

Early and prolific. The fruits are of the true crookneck type, heavily warted and of light golden color. One of the most popular sorts for home and market.

**Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 90c**

**VEGETABLE MARROW.**—Very early, oblong variety; fruit dark green at first, becoming marbled and striped with yellow and lighter green as they mature. Very fine flavor fried in oil, or stewed; use while small.

**Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 75c**

**YELLOW BUSH SCALLOP.**—A very early, flat, scallop variety of large size; color yellow; flesh pale yellow and well flavored.

**Pkt. 5c; oz. 10c; 4 oz. 25c; lb. 75c**

## Fall and Winter Varieties

**BOSTON MARROW.**—A popular variety for canning; large oval fruit; skin bright reddish orange, with light cream netting; flesh rich orange, fine grained and of excellent quality.

**Pkt. 5c; oz. 10c; 4 oz. 30c; lb. 70c**

### Mammoth Chili

The largest of all squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding. **Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.50**

### Golden Hubbard

The same in size, shape and quality as the well-known Hubbard Squash, except that it is a bright red or golden color and somewhat earlier. It is also a long keeper; considered by expert judges to be one of the very best fall and winter sorts yet introduced. Matures before the frosts; is vigorous and wonderfully productive. In flavor it has no equal. **Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25**

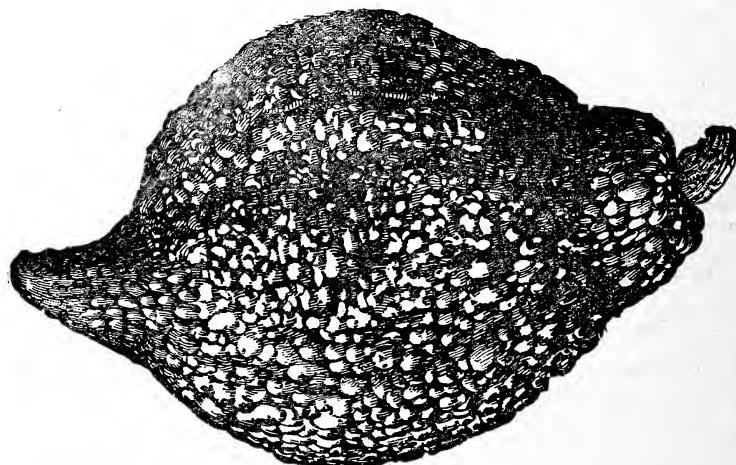
~~~~~  
Don't Overlook

"DELICATA

SQUASH"

on page 29  
~~~~~

**DOUBLE** the yield of your squash by using a handful of "**WONDER**" Fertilizer to each hill. (See page 34.) You know the richer your ground, the larger the yield, and Wonder Fertilizer certainly contains more plant food than any other brand.



Hubbard Squash.

Goldson, Ore., Dec. 13, 1913.

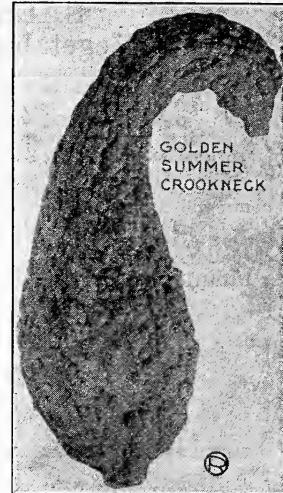
Routledge Seed & Floral Co.

Dear Sirs: The sample packet of seeds you sent me done fine for me. The Golden Hubbard Squash was a very good success. Although I planted them late, they fully ripened before the frost caught them. They are very delicious.

Respectfully,  
MISS AGNES KRUEGER.

**NEW DELICIOUS.**—This winter squash resembles the Hubbard; flesh exceedingly thick, compact, fine grained; color golden orange; tender, cooking sweet and rich, whether it is steamed, baked, boiled or made into pies.

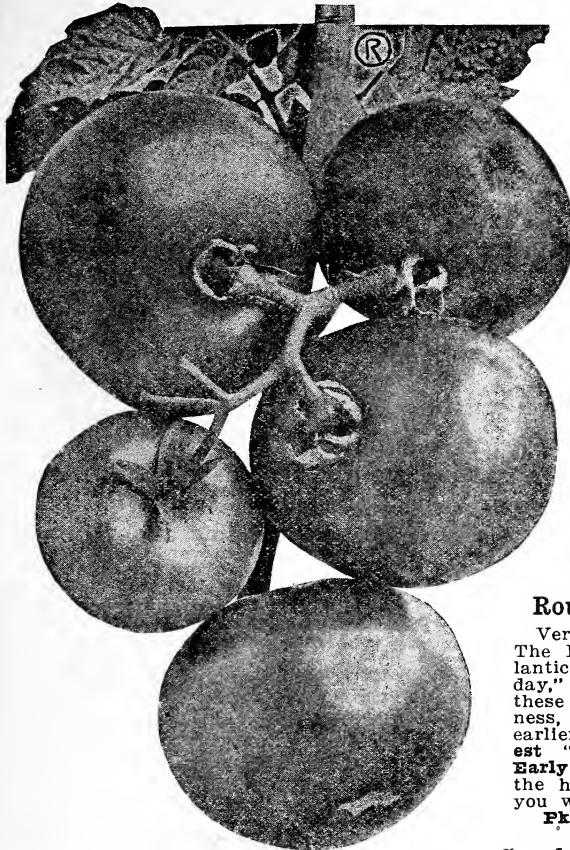
**Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.25**



See DAD'S  
ELECTRIC  
LANTERN,  
page 110.

## TOMATO

Tomato Plants in any quantity. See Vegetable Plant list, page 33.



### Bonny Best

**Highly prized by many Oregon growers.** Tomatoes large, smooth and of a rich scarlet red, the color that sells quickly. Fruit thick with a small core, a profitable tomato for any purpose. Slices exceptionally well. Flesh and flavor excellent. Nearly globe shaped, slightly flattened at stem. Borne in clusters of 5 or 6 fruits all ripening evenly together. **Very productive and one of the very earliest.**

Pkt. 10c; ½ oz. 25c; oz. 45c; 4 oz. \$1.25

**DWARF CHAMPION.**—Forms a strong, erect, bushy plant 2 feet high; often sold as Tree Tomato. Fruit smooth, medium sized, solid and of good flavor.

Pkt. 5c; oz. 30c; 4 oz. \$1.00

### TOBACCO

Culture practically same as cabbage.  
**Havana or Connecticut Seed Leaf.**—Both good, hardy varieties for general planting here.

Pkt. 10c; oz. 40c

Increase the yield and quality of your Tomatoes by using a good plant food. See page 34. **WONDER ODORLESS FERTILIZER** will do it; a spoonful to a plant.

### Comet

**The Best Tomato for Greenhouse Forcing.**—A recent variety, matchless in form and color. Beautiful, smooth, round fruit in great abundance. Color a rich scarlet red. Sets very freely in bunches. Equally good for outdoor culture as for forcing.

Pkt. 15c; ½ oz. 40c; oz. 75c

### Chalk's Early Jewel

The largest, smoothest and finest flavored, extra early bright red tomato, about 10 days later than Spark's Earliana. It is a heavy cropper with tomatoes of larger size, sweeter flavor, produced throughout the season. The plants are of bushy, compact growth, heavily loaded with fruit. The tomatoes are just right for market; very solid and deep through, being almost round; ripening to the stem without cracks or green core. The flesh is thick, solid, of fine flavor, with few seeds.

Pkt. 10c; oz. 35c; 4 oz. \$1.00

### Routledge's Early Oregon

Very hardy and succeeds everywhere. The Early Michigan, Fordhook and Atlantic Prize were good sorts "in their day," but the Early Oregon is superior to these in shapeliness, color, size, smoothness, solidity and flavor, as well as being earlier. Those wishing to have the earliest "GOOD" tomato should raise our Early Oregon. Highly recommended for the home or market gardener. Try it; you will not be disappointed.

Pkt. 10c; ½ oz. 20c; oz. 30c; 4 oz. \$1.00

### Spark's Earliana

The earliest tall variety, forming ripe fruit much earlier than most early varieties. The fruit is large, smooth, of a bright scarlet color and of fine quality. Very valuable for early market use.

Pkt. 10c; oz. 25c; 4 oz. 75c

### STONE

Grown very extensively for a main crop by market gardeners; very large, smooth and solid, of a bright red color and a heavy texture; of excellent quality and not subject to rot.

Pkt. 5c; oz. 25c; 4 oz. 75c

**YELLOW HUSK OR GROUND CHERRY.**—Used for preserves and eating from the hand. The seed we offer is that of the true Yellow Ground Cherry, not the purple-fruited sort, which is scarcely edible.

Pkt. 5c; oz. 30c

**YELLOW OR RED PEAR.**—Used for preserves and to make "tomato figs." Fruit distinctly pear shaped and of excellent flavor.

Pkt. 5c; oz. 30c

**RED OR YELLOW CHERRY.**—Fruit small, about ½-inch in diameter; perfectly round and smooth; fine for pickles and preserves.

Pkt. 5c; oz. 30c

## TURNIPS OF "Highest Quality"

For spring use sow very early in rich, loose ground. They must make a quick growth to be tender and sweet. For fall and winter use sow in July, August or September.

**EXTRA EARLY PURPLE TOP MILAN.**—This variety is ready for the table sooner after planting than any other; flesh white, firm and delicate.

Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.25

**WHITE MILAN.**—Same as above, but pure white; sweet and tender.

Pkt. 5c; oz. 15c; 4 oz. 45c; lb. \$1.25

**EARLY PURPLE TOP (Strap Leaved).**—One of the best and universally grown; flesh firm, but very tender and sweet; of quick growth; attains large size, profitable for stock, keeps well.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 20c; lb. 60c

### Early White Flat Dutch

A leading white fleshed variety; either for the family, market garden or field crop; it is medium size and produces a large crop; the flesh is firm, but tender and of a superior rich, buttery flavor; a good keeper.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 20c; lb. 60c

### Early Snowball

A superior table variety, meltingly tender, with snow-white flesh. Matures six weeks after sowing; medium size, smooth and perfectly globular.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 25c; lb. 75c

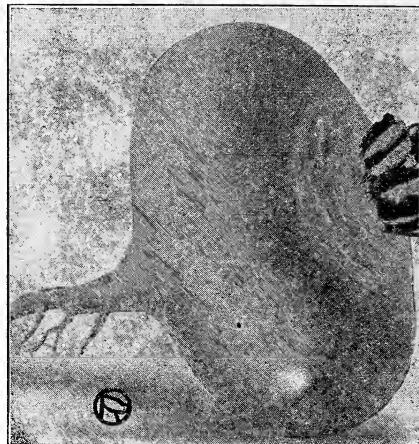
### White Egg

Is perfectly smooth, of a pure clear white; a very choice kind for table use; of excellent flavor, sweet and mild; pulls clean from the ground; thin, snow-white skin.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 20c; lb. 75c

**ORANGE JELLY, OR GOLDEN BALL.**—Delicate and sweet, yellow flesh, medium in size, firm, crisp and most excellent flavor; keeps well and is superior as a table variety.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 20c; lb. 60c



Purple Top Strap Leaf.

**AMBER, OR YELLOW GLOBE.**—One of the best yellow-fleshed varieties; skin clear yellow; is of good size and fine flavor.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 20c; lb. 60c

**PURPLE TOP WHITE GLOBE.**—A very heavy cropping, globe-shaped variety, with white skin and flesh; excellent flavor and much in favor with the market gardeners.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 20c; lb. 60c

**YELLOW ABERDEEN.**—Round, medium size; light yellow; produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet; a great favorite with the dairymen.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 20c; lb. 60c

### Cowhorn (Long White)

Slightly crooked, pure white, except a little shade of green at the top; grows half out of the ground and is of very rapid growth. Has proved itself one of the best stock turnips ever introduced in Oregon.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 25c; lb. 75c

## RUTABAGA OR SWEDES

**IMPROVED AMERICAN PURPLE TOP.**—The leading and most popular variety, being very distinct in type, attaining a wonderfully large size; immense yielder; the flesh is very firm, superior in every way; valuable alike for all purposes.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 20c; lb. 60c

**WHITE SWEET GERMAN.**—This variety is most excellent either for table or stock; it grows to a very large size; flesh white, solid, of a firm texture, sweet and rich; an excellent keeper.

Pkt. 5c; oz. 10c; 2 oz. 15c; 4 oz. 20c; lb. 60c

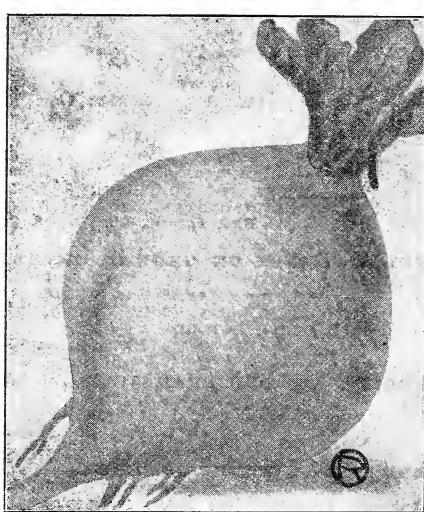
*Chewelah, Wn., July 20, 1915.*

Routledge Seed & Floral Co.

Gentlemen: Your White Icicle Radishes beat anything ever known in this country.

I have recommended your seed firm to dozens of people and sent them your books to look over.

Yours truly,  
MRS. J. C. ACHIN.



American Purple Top.

For feeding stock in fall and winter there is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock, and serve to keep them in good condition.

## HERB SEEDS

### Pot, Sweet and Medicinal

Herbs in general delight in rich, mellow soil. Those marked with a (\*) are perennial. We offer some of the most useful and popular. They should be cut on a dry day, just before they come into full bloom, and tied in bunches and hung up or spread thinly on a floor where they can dry quickly.

#### All the Following Herbs, 5c per Packet.

	Oz.		Oz.
Anise.—Seeds aromatic; used medically	.20c	*Horehound.—Bitter; for tonic	.30c
*Balm.—For culinary purposes	.25c	*Hysop	.20c
Basil.—Sweet; for flavoring soups	.20c	*Lavender.—For fragrance	.25c
Borage.—For flavoring; also bee pasture	.15c	*Marjoram.—Sweet; for flavoring	.25c
Caraway.—For flavoring	.15c	*Rosemary.—Aromatic oil	.35c
*Catnip (Cat Mint).—Mild nervine	.40c	*Summer Savory.—For flavoring	.15c
Coriander.—Used for flavoring	.10c	*Sage.—For tea flavoring and dressings	.20c
Dill.—Used medicinally and for pickles	.10c	Saffron.—For dyeing and powder	.20c
Dandelion	Pkt. 10c; .75c	*Thyme (Broad-Leaved).—For soup	.45c
*Fennel.—Flavor of celery	.10c	*Wormwood.—Medicinal use	.25c

#### SEEDS FOR FLAVORING.

Anise.—For flavoring	1/4 lb. 15c; lb. 45c	Dill Seed.—Used to flavor	1/2 lb. 25c; lb. 45c
Caraway.—For bakers' use	1/4 lb. 15c; lb. 35c	Mustard.—Yellow	Oz. 10c; 1/4 lb. 15c; lb. 35c
Celery.—For flavoring and soups	1/4 lb. 10c	Poppy Seed.	1/2 lb. 25c; lb. 35c
Coriander.—For flavoring	1/2 lb. 20c; lb. 35c		

### CORN PLANTERS

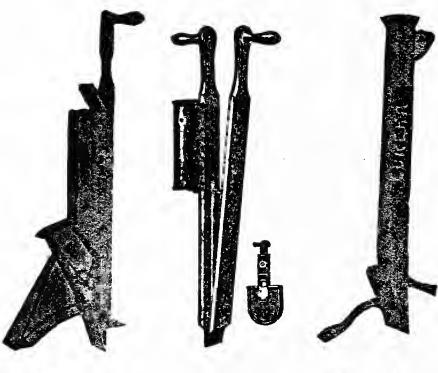
**ACME.**—Two-hand type; length 35 inches; a popular and successful planter; sure in its work. Will plant corn, peas and beans. (See cut.) (P. P. 6 lbs.) Price \$1.00

**SEGMENT AUTOMATIC.**—One-handed type; length 34 in. Can be adjusted for corn, beans or peas. You plant accurately and evenly as fast as you walk. (See cut.) (P. P. 7 lbs.) Price \$1.50

### POTATO PLANTERS

**EUREKA TUBULAR.**—Length 36 inches. This is the lightest and best tubular planter made; opens automatically as the top of it is moved forward in walking. (See cut.) (P. P. 5 lbs.) Price \$1.50

**PINGREE.**—Same as Eureka, without the tube down the handle. It is light and a very satisfactory planter. (P. P. 5 lbs.) Price \$1.25



Segment.

Acme.

Eureka.

### VEGETABLE PLANTS

We grow large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in two grades—plants direct from the seed beds and those that have been transplanted into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts. Tell us your choice of varieties, and we will send it or give good substitute. **NO PLANTS SENT C. O. D.**

By Express	
Postpaid	Not Prepaid
Dozen	100

#### **CABBAGE**

Early kinds, transplanted \$ .20 \$1.00 \$7.50  
Late, not transplanted.... .15 .60 5.00  
**Add 20c per 100 for Cabbage Plants by mail.**

#### **CAULIFLOWER**

Early Snowball, transplanted ..... .25 1.50 12.00  
Early Snowball, not transplanted ..... .25 1.25 10.00  
Late kinds, transplanted.. .25 1.25 10.00  
Late kinds, not transplanted ..... .25 1.00 7.50  
**Add 20c per 100 for Cauliflower Plants by mail.**

#### **CELERI**

Leading kinds, transplanted ..... .25 1.00 7.50  
Not transplanted ..... .75 6.00  
**Add 20c per 100 for Celery Plants by mail.**

By Express	
Postpaid	Not Prepaid
Dozen	100

#### **PEPPER**

Pepper Plants ..... \$.25 \$1.00 \$7.00

#### **SWEET POTATO PLANTS**

Sweet Potato Plants..... .30 1.00 7.00

#### **TOMATOES**

Leading kinds, transplanted ..... .30 1.25 10.00

Not transplanted ..... .75 7.00

**Add 25c per 100 for above plants by mail.**

**Pot Grown Tomato Plants.**—These large plants give the most profitable results. Can not be mailed. Prices: 2 1/2-in pots, 10c each, \$1.00 doz.; 3-in. pots, 15c each, \$1.50 doz.; 4 to 5-in. pots, 25c each, \$2.50 doz.; must go by express, charges collect.

#### **CHIVES**

Chives (Schnittlauch)—Per bunch, postpaid ..... 25c

**NOTE—Special Low Prices on Vegetable Plants in 5, 10 or 20 thousand lots—Write.**

## "WONDER ODORLESS FERTILIZER"

The best fertilizer for the city gardener; clean and odorless. Remember, it's ALL FERTILIZER; a wonder in action, a giant in strength, and the small amount necessary to use makes it the CHEAPEST AND MOST EFFICIENT High Grade Fertilizer on the market, and last, but not least, IT IS ODORLESS.

In "WONDER" you get the latest scientific discovery in plant food, something which gives results, something that astonishes. This "WONDER" fertilizer is the result of years of study and trials by a fertilizer expert. In "WONDER" we have a moritorius and **ODORLESS** concentrated fertilizer, put up in small packages, thereby making its distribution a cheap and easy matter. Being a concentrated fertilizer, only a very small amount is required to produce the largest yield. (See general directions below.) There's no use of your paying dray and freight charges on bulky fertilizers containing three-fourths sand, ash or dirt filler. "WONDER" is the pure "**DOPE**"—clean and easy to apply. We guarantee it to give results.

The small amount of "WONDER" required reduces the expense of fertilizing to about one-half the cost of manure or the average commercial fertilizers on the market.

The "WONDER" Fertilizer is sold only in 25-lb. white, clean canvas bags and 2-lb. odorless cartons.

**PRICE OF "WONDER"—2-lb cans, 25c, add postage if wanted by mail. 25-lb. white canvas bag, f. o. b. cars or boat Portland or delivered free anywhere in this city or on any rural route within the first or second parcel post zone, \$2.00. STORE PRICE, \$1.75 per 25-lb. bag.**

### General Directions for Using Wonder

Remember a 25-lb. bag of "WONDER" is equal, in plant food, to 100 lbs. of most any other commercial fertilizer on the market.

**For Ferns, Palms and House Plants:** One-half teaspoonful to a 6-in. pot, dug into the top soil; 1 teaspoonful, heaping, when repotting, mix well through the soil.

**For Vegetables:** A teaspoonful to a Cabbage, Tomato, Cucumber, Pumpkin or Melon Vine. Sprinkle lightly, in the row, when planting Radish, Lettuce, Peas, etc., or hoe in the top soil after they are up. **For Flowers outside:** A very little to each plant, or dig into the top soil before or after planting.

**For the Lawn:** One 25-lb. bag of "WONDER" will go over a space of your lawn 50x50 or 2500 square feet, and is sufficient for same, applied once yearly. In dry weather always water after applying.

**For Fruit, Roses, Etc.:** A heaping tablespoonful for a small Fruit, Berry, or Rose Bush, a cupful for a 3 or 4 yr. tree; 1 to 3 lbs. to a full-bearing Fruit Tree, large Flowering Shrub or Vine.

**CAUTION!** Always mix the fertilizer into the top soil as much as possible, and water or sprinkle after applying it, especially on grass or tender foliage or growth.

Ask for "WONDER" 20-PAGE BOOKLET that gives plain facts and full information and directions for all purposes. FREE.

We sell more bags of WONDER than all other fertilizers combined. WHY?

### Sheep Guano—Pulverized

#### For Lawns and Garden Work.

This year for the first time we are able to offer a really first class Sheep Manure that is pure and free from straw and dirt because it has been properly dried, then ground and sacked. You will find it pulverized, dry, almost odorless and very superior to most stocks.

Immediate and quite lasting in effect. Excellent for mixing with the soil for pot plants, flower boxes and beds. In the vegetable garden it promotes a rapid, steady growth until maturity.

In making new lawns, rake a liberal amount into the top soil, especially if the soil is heavy or full of clay. Scatter broadcast over your lawn each fall about one-half pound per square yard.

**Prices:** 10 lbs. 25c; 50 lbs. \$1.25; 100-lb. bag \$1.75, delivery extra; low price per ton.

**HIGH-GRADE BONE MEAL.** — This is finely ground and of best quality. Used for Lawns, Roses, Shrubs and Trees. Not very quick in action and should be applied in the fall or very early spring. Use 1000 to 2000 lbs. per acre.

**Price:** 5 lbs. 30c; 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.00.

**LAND PLASTER.** — Used largely on grass and clover crops. Not sold in less than 100-lb. sacks. City delivering extra.

**Price:** 100 lbs. \$1.00; 500 lbs. \$4.00; 1000 lbs. \$7.50; ton \$14.00.

**POTASH.** — Most of the Muriate and Sulfate of Potash comes from Germany and, on account of war, price is too high and supply short.

**NITRATE OF SODA.** — It is very quick in action, and hastens maturity of crops. Being quickly soluble, it should not be applied until the plants are above ground. Be careful or it will burn tender foliage.

**Price:** 1 lb. 10c; 5 lbs. 40c; 25 lbs. \$1.25; 100 lbs. \$4.00.

**SUPERPHOSPHATE.** — This is a concentrated form of phosphoric acid, and it is actually the cheapest form in which to buy phosphoric acid.

**Price:** 1 lb. 10c; 5 lbs. 40c; 40 lbs. \$1.25; 100 lbs. \$2.00.

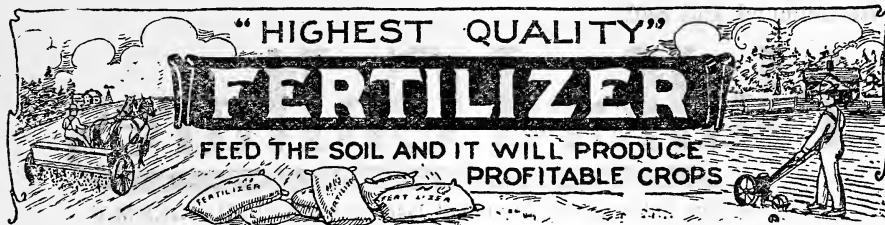
**LIME ROCK.** — Lime is an indirect soil improver and very valuable conditioner. Loosens the soil, releases plant food. Few people realize its value; try it. Lime Rock is the most convenient form to apply it.

**Price:** 10 lbs. 50c; 50 lbs. \$1.25; 100 lbs. \$1.50.

**FREE  
20 pg. Book  
Tells All.**



Wonder Trade-Mark.



### “Beaver Brand” Animal Fertilizer

Properly prepared and carefully mixed and put up under the new state fertilizer law with guaranteed analysis. Best and cheapest commercial fertilizer on the market, quality and price considered. Low prices by the ton.

**ROSELAWN.**—Prepared especially for use on lawns, also excellent for rose bushes and home gardens. A quick acting yet lasting fertilizer; high grade, properly prepared, ground fine and should be scattered broadcast on the lawn at the rate of 100 lbs. to the average city lot, when making a new lawn or about half the amount as a top dressing in the spring, using the balance for bushes and garden. Put up in 50 and 100-lb. sacks, also in 10-lb. patent cover air-tight cans that can be carried home on a street car.

Prices: 10-lb. pails, 50c; 50-lb. sacks \$1.75; 100-lb. sacks \$3.00.

**GENERAL GARDEN FERTILIZER—“D.”**— Practically all garden truck requires a good percentage of phosphoric acid and potash. “BEAVER BRAND D” Animal Fertilizer is prepared especially for gardens and the following formulae developed after much investigation. In comparing prices, note carefully the very high **Guaranteed Analysis:** Ammonia, 4 per cent; phosphoric acid, 9.29 per cent; potash, 6 per cent.

Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.55; 500 lbs. \$11.50.

**POTATOES AND ROOTS—“E.”**—These products require a good percentage of phosphoric acid and potash, with a much less percentage of nitrogen. Therefore use BEAVER BRAND “E” Fertilizer. **Guaranteed analysis:** Ammonia, 3.04 per cent; phosphoric acid, 11.05 per cent; potash, 12 per cent.

Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.60; 500 lbs. \$11.00. Low price by the ton.

**VINES AND BUSHES—“A.”**—To produce a good, healthy body and both quality and quantity in fruit, all vines and bushes should be well fertilized. They draw phosphoric acid very heavily from the soil. We recommend BEAVER BRAND “A” Fertilizer. **Guaranteed analysis:** Ammonia, 3 per cent; phosphoric acid, 12.70 per cent; potash, 3 per cent.

Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00.

**FRUITS AND BERRIES—“B” or “C.”**— Fruits and berries must have a good supply of phosphoric acid and potash, particularly phosphoric acid, to insure the best results both as to quality and quantity. If you cannot fertilize all of your land, at least make a small trial. On the above crops which are doing fairly well, we recommend BEAVER BRAND “B” Fertilizer, to maintain the fertility and increase quality and quantity. Where the crops have been very poor, use BEAVER BRAND “C” Fertilizer, to recover fertility.

Most of the above fertilizers should be used at the rate of 300 to 500 lbs. or more per acre. It will pay, and pay well.

	Guaranteed Analysis.	“B” Pct.	“C” Pct.
Ammonia	.....	2	3
Phosphoric Acid	.....	12.14	11.22
Potash	.....	3	4.50

Prices: 50-lb. sacks \$1.35; 100-lb. sacks \$2.40; 500 lbs. \$10.50. NOTE.—“C” is 10c per 100 higher.

**SPECIAL FERTILIZER FOR HOPS—“A” or “E.”**—We furnish two brands of Fertilizer for Hops, one with a very high percentage of potash and the other with a very small percentage of potash, phosphoric acid being the same in both. Hops are known to be great feeders on phosphoric acid from the land. The average hop crop removes seventy-five pounds per acre from the soil. This has to be replaced. For hops on clay soil and soil containing considerable potash, we recommend BEAVER BRAND “A” SPECIAL Hop Fertilizer, but for hops on all other lands we recommend BEAVER BRAND “E” Fertilizer.

	“A” Spe- cial, Pct.	“E,” Pct.
Ammonia	..... 4	3.04
Phosphoric Acid	..... 11.05	11.05
Potash	..... 2	12

Prices, “A” Special: 50-lb. sacks \$1.35; 100-lb. sacks \$2.40; 500 lbs. \$10.00. Price of “E”: 25c per 100 more. Low prices by the ton.

**SPECIAL ONION FERTILIZER—“E.”**—Onions are great users of phosphoric acid and potash, using more potash per acre than the average hop crop and as much as a potato crop. On account of intensive farming of onions, the supply of phosphoric acid and potash is very quickly decreased. To hold up your quantity and quality of crops you must feed them more plant food. We recommend BEAVER BRAND “E” Fertilizer. **Guaranteed analysis:** Ammonia, 3.04 per cent; phosphoric acid, 10.05 per cent; potash, 12 per cent. Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.60; 500 lbs. \$11.00. Low price by the ton.

**TANKAGE.**—“Beaver Brand” Dried and Ground.—This is a very highly concentrated tankage, analyzing 10 per cent ammonia and around 20 per cent calcium phosphate. Low price by the ton.

Prices, No. 1 Grade: 100-lb. sacks \$2.50; 500 lbs. \$12.00. Lower grades as cheap as \$37.50 ton.

**DRIED GROUND BLOOD—“Beaver Brand.”**—This is an A No. 1 product and contains a very low percentage of moisture and highest possible percentage of nitrogenous material. **Guaranteed analysis:** ammonia 16½ per cent.

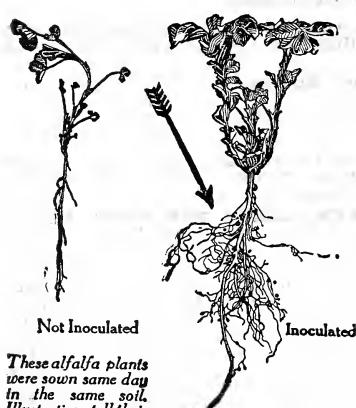
Prices: 1 lb. 10c; 5 lbs. 35c; 10-lb. sacks 60c; 50-lb. sacks \$2.20; 100-lb. sacks \$3.75

We Recommend and Sell

# Mulford Cultures

**FOR LEGUMES**

(Note—This culture was cataloged last year as NITRO-GERM.)



These alfalfa plants were sown same day in the same soil. Illustrations tell their own story.

Always inoculate seed (or soil) with the MULFORD NITRO-GERM CULTURE before planting Garden or Field Beans and Peas, Sweet Peas, Alfalfa, Clovers, Vetch and other field or garden legumes.

It means great increased crops and improved soil.

The MULFORD CULTURES contain nitrogen-fixing bacteria, which form nodules on the roots of field and garden legumes that act by collecting nitrogen from the air and converting it into nitrates—food for soil and plants. It puts more into the soil than the growing crops need and it won't leach out; enriches the soil for succeeding crops of all kinds. Government tests have proved this scientific method of immense value to farmers and truckers.

Failure to produce satisfactory crops of Clover, Alfalfa, Vetch, Peas, Beans and other legumes, is more often attributable to lack of the necessary bacteria in the soil than merely to poor soil.

When these germs are present in sufficient numbers, small nodules form on the roots of leguminous plants, as shown in accompanying cut, and the nodules store up the nitrogen which is drawn from the air by the plant.

Without these germs a good crop is impossible. Therefore always inoculate the seeds mentioned at planting time with the MULFORD CULTURES, which contain active nitrogen-fixing bacteria. The bacteria in this product have all been proved by actual test to be active and vigorous. It is easily and quickly used by mixing with water and applying to the seed or soil; the directions which accompany each package are so complete and explicit that anyone can use it.

**MULFORD CULTURES** are "DIFFERENT" and should not be confused with other brands.

The color is different (they are dark, almost black, due to a special ingredient added to increase the growth and activity of the bacteria).

The count is different (bacterial counts show fully twice as many bacteria as in the old-form cultures).

The bottle is different (being sealed—an important feature which prevents all possibility of contamination from the outside air).

## Increase Your Crops—Improve Your Soil

Legumes offer the best-known means of maintaining soil fertility and rejuvenating over-cropped and worn-out fields. They add both humus and nitrogen to your soil and thus increase your yield of non-legume crops.

The U. S. Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitrogen-fixing bacteria to induce a prompt "catch" and increase your yield.

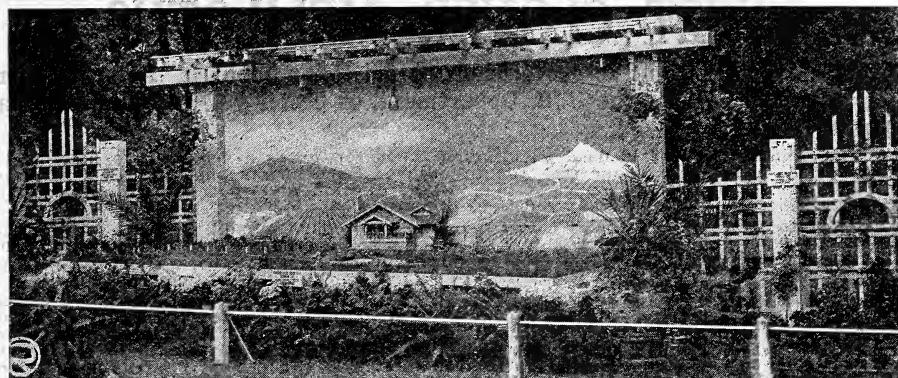
**MULFORD CULTURES** are scientifically prepared and tested by experts, in the biological laboratories of H. K. Mulford Co., Philadelphia, with the same degree of care as Mulford Antitoxins, Serums, Vaccines, etc., which are standard all over the world.

**CAUTION**—Be sure to specify the particular legume on which you desire to use the MULFORD CULTURES otherwise we will not know how to fill your order. We have it for Alfalfa, Red Clover, White Clover, Sweet Clover (Bokhara), Alsike Clover, Field Peas, Vetch, Garden Peas, Garden Beans, and Sweet Peas.

**PRICES**—Garden size ( $\frac{1}{4}$  acre), 50c; 1 acre size, \$1.50; 5 acres size, \$5.00; postpaid.

The 5-acre size is not carried in stock, and orders for that size should reach us at least ten days before it will be required for use.

Why buy expensive commercial nitrates when you can grow legume crops and thus increase your yield and at the same time increase the nitrates and enrich and renovate your soil by Nature's own method?



The above illustration is from a photograph of our Exhibit at Portland's Rose Festival Center last year. It was a "miniature" of a Country Home, Garden, Nursery and Lawn. The lawn was planted just three weeks before the exhibit, to show what quick and beautiful results our Evergreen Lawn Seeds give. Thousands of people crowded around our exhibit each day and were much impressed.

## LAWN GRASS SEED

Though we offer separately, seed of many of the grasses suitable for the lawn, we consider as very erroneous the somewhat prevalent idea that any single variety of grass seed is preferable or equal to a mixture.

**NOTE.**—We will prepare special mixtures for shady places, low, wet soils, very dry soils and terraces. Just mention it when ordering.

### R. R.'s Evergreen Lawn Grass

To obtain a good Lawn Grass Mixture, it is necessary that the best possible seed of fine grasses be used in the combination, embracing such varieties as are of neat, close growth, extreme hardiness, and adapted to produce a quick, permanent sod. Judicious selection of seed, knowledge of the habits, vigor, quality and hardiness of varieties used in the mixture can only be gained by thorough and practical tests under different climatic and soil conditions. After more than 16 years' experience, we offer our Evergreen Lawn Grass Seed Mixture, composed of a thoroughly balanced combination of various native and foreign fine-leaved, deep-rooting grasses of interweaving habit, that will flourish under varied soil and climatic conditions, and which may be depended upon to produce a beautiful, compact evergreen sod that will resist trampling and hard usage, and at the same time present that handsome, velvety appearance so much desired.

**PRICE, 40c per lb. postpaid. 10 lbs. or more NOT PREPAID, at 35c lb.**

**Note.**—You better spend a few cents or a dollar extra on the seed you buy and have a fine lawn that you'll be proud of. Sow 1 pound seed to 15 feet square for best results.

### FAIR GREEN LAWN GRASS

For those that are not so particular, or for ordinary purposes, this mixture will give satisfaction. It is not a cheap mixture; far from it. We know it is equal to most fancy or special mixtures being offered.

**Per lb. 30c; postage extra; 10 lbs. or more, not prepaid, at 25c lb.**

**For Lawn Rollers, Lawn Mowers, Lawn Supplies, Etc., See Pages 101 to 106.**

### White Clover (*Trifolium Repens*)

Used largely in lawns and permanent pasture mixtures. Accommodates itself to a great variety of soils. High grade clean seed is very scarce and high this year; beware of low-priced seed this season.

**Choice Seed, 10 lbs. \$6.00. Per lb., postpaid, 70c.**

**Extra Fancy Seed.—Per lb., postpaid, 75c**

**For Lawns** always buy our Extra Fancy Seed, which is the purest high quality seed obtainable, and the true very dwarf, hardy variety.

**It Pays Well** to inoculate Alfalfa and Clover Seeds with Mulfords Cultures. See page 36.

**PLEASE NOTE.**—Above prices subject to market changes. See Note "about prices" on page 39. Write for net prices when ready to buy, or order at above prices and we will send you full value, whether **MORE** or **LESS**.

### Alfalfa, or Lucerne Clover

Reports prove that Alfalfa will grow in all parts of the West, but requires a deep loose soil. Will not thrive on heavy clay or where there is hard pan. As soon as cut it immediately commences to grow. Excellent hay or pasture. Alfalfa, once established, is a crop so profitable that every farmer may well take great care to get a stand. Much has been published about its high feeding, fertilizing and wonderful yield possibilities.

**Price: 10 lbs. \$2.50; 100 lbs. \$22.00. Per lb., postpaid, 35c.**

### Dry Land Alfalfa

For high, dry, hot land, where irrigation is impossible.

**Price: 10 lbs. \$2.50; 100 lbs. \$23.00. Per lb., postpaid, 40c.**

# SWEET CLOVER--MELILOTUS

**Sweet clover has come to stay. There is no doubt about it. Ask any farm paper, any state college, the U. S. Department, or better yet, any man who has grown it.**

**It's Value.** Sweet clover is used as either a feed crop or as a fertilizer to plow under to improve the soil and increase the crop to follow. Experiments show that where sweet clover was grown and turned under it has increased grain and root crops from 25 to 50 and even 100 per cent. Grows fast and is easy to start.

**What Soil to Sow It On.** It will thrive on almost any kind of soil. It will grow luxuriantly on any soil that will grow clover or alfalfa and also on soils that will not grow either. It will grow and thrive on thin, sandy soil, hardpan, gumbo, rocky upland, clay and alkali land.

**A Biennial.** Sweet clover lives two years. It makes large, rapid growth the first season and can be cut for hay or pastured the last half of the summer, but does not bloom or bear seed. The second year it blooms, bears seeds and dies. Will make two crops of hay or a crop of hay and one of seed the second year. Can be plowed under either the first or second year, but to get the full value in humus the second season is better on account of the large roots that penetrates the lower layers of soil thereby loosening it up and adding much humus and more nitrogen.

**Variety to use.** We recommend the big, white biennial variety, *Melilotus Alba*. We do not advise the yellow, but if you want it we can supply it at a much less cost per pound.

**When to Sow.** It seems to do best sown very early in the spring. It does well sown either alone or with a nurse crop of small grain. Use 15 to 20 pounds of seed per acre. It can also be sown on pasture or rough land right on top of the ground without breaking up. It seems to do better on a firm seed bed, as long as the seed is lightly covered with soil, not necessary to plow. Harrow or disk it into the top soil. There is no danger of its becoming a pest. It dies at the end of the second year and unless allowed to re-seed cannot spread.

**Good Feed.** It can be pastured at any age, except when quite small, and stock soon learn to like it. It is claimed that it does not bloat stock at all. The hay is said to be equal to alfalfa, especially if cut before it gets old and woody. White Sweet Clover should be cut high to avoid killing and make quick second growth.

Sweet Clover makes excellent pasture for horses, cattle, sheep, hogs or chickens. A very early and continuous cropper. One acre is claimed to support 20 shoats, but early the first season they are liable to root it out unless nose ringed, the second season they cannot. Pasteur it close so as to produce young, tender shoots, or if it gets ahead of the stock, cut high for hay.

Price per lb., 35c postpaid; 10 lbs., \$3.25; trial pkg. 10c. Write for quantity price.

**For Best Results Treat All Clover Seeds with Mulfords Cultures (See Page 36)**

# SUDAN GRASS

**A New Forage and Hay Crop for Dry Regions.**

This grass was introduced in the States by the Department of Agriculture and has proved a great success especially for dry land conditions, but from recent reports we have read and samples of the grass shown it appears to do equally well in the Willamette Valley.

Sudan Grass is strictly an annual and dies each year like Millet and must be seeded again each spring. This makes it fit admirably into any system of rotation, and while it does not benefit the soil like legumes, it does afford a change in crop and this is a good thing for the soil. Sudan Grass is tall, reaching a height of from seven to nine feet. The plant stools wonderfully and produces under favorable conditions as many as 100 stalks from a single root.

It belongs to the sorghum family, but is more slender and grassy in manner of growth, earlier and harder, and matures in 10 to 12 weeks. Yields a good crop of first-class hay. All stock relish the hay and thrive on it. The quality is said to be equal to Timothy. Yields of from two to four tons per acre are common and under irrigation they run as high as eight to ten tons per acre.

**Seeding.** Do not plant until the soil has become warm in the spring or any time during the summer as a catch crop so long as 70 to 80 days intervene before frosts. Sudan Grass can be sown in rows 18 to 42 inches apart, drilled in with a grain drill or sown broadcast. In the semi-arid sections it is much more profitable to seed it in rows and cultivate, and even in the humid regions a small amount of cultivation appears to give added vigor to the plants. Seeded in rows 36 inches apart, 3 pounds per acre, drilled or broadcast 16 to 24 pounds per acre.

**Harvesting.** Sudan Grass is easy to cut with a mower and cures readily. When cut for hay it is best to cut just after full bloom, so that it will have as much time as possible for a second growth. After cutting it renews its growth promptly when moisture conditions are favorable. The grass stools abundantly after first cutting and the second and third cuttings are very fine stemmed.

Every farmer looking for a new forage or hay crop should try at least an acre or two.

**PRICE—Last year it sold at \$1.00 per lb., but we are fortunate in securing a fair supply which we offer at 50c lb. postpaid; 10 lbs. not postpaid for \$4.50. Trial packet 10c.**

**OTHER GRASSES**—Write for prices (stating quantity wanted) on any Grass, Clover or Field Seeds wanted. OUR CATALOG GIVES GENERAL INFORMATION. FREE ON REQUEST.

**Clover Seeds—Continued from page 37****Red Clover (*Trifolium Pratense*)**

Hardy, and succeeds well on any good soil.  
10 lbs. \$2.50; 100 lbs. \$22.50. Per lb., postpaid, 35c.

**Alsike Clover (*Trifolium Hybridum*)**

Valued highly for sowing with other grasses. Excellent for hay and pasture; valuable for bees; resists both drought and excessive moisture.

10 lbs. \$2.25; 100 lbs. \$20.00. Per lb., postpaid, 30c.

**Double Your Clover Crop**

By treating all clover seeds you plant with Mulford's Culture. **B E S T B Y T E S T.** See page 36.

**Crimson Clover (*Trifolium Incarnatum*)**

A thrifty annual. It germinates quickly, grows rapidly and stools abundantly.

10 lbs. \$2.25. Per lb., postpaid, 30c.

**ABOUT PRICES****READ THE FOLLOWING****ABOUT PRICES**

Only one grade priced, the best, choice, clean seed. Write for prices in quantity.

Single pound prices on Grass and Clover Seeds are prepaid. Prices per ten, fifty and one hundred pounds are not prepaid and are subject to market changes. Reference tables inside back cover.

**YOU WILL ALWAYS GET YOUR MONEY'S WORTH.**

Prices on Grass and Field Seeds change occasionally, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity wanted, or order what you want at catalog prices, and we guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower. In other words, we will always ship seed to cover the full amount of money sent to us.

**FOR AMOUNT TO SOW PER ACRE, SEE TABLE INSIDE BACK COVER.****Kentucky Blue (*Poa Pratensis*)**

Remarkable for its ability to adapt itself to a great variety of soils, succeeding on an average dry soil as well as on a moist meadow. An abundant yielder and presents a handsome green appearance early in the spring, thus making it of great value for lawn mixtures. Our extra fancy grade for lawns is unequalled.

Extra fancy, 10 lbs. \$3.00. Per lb., postpaid, 35c.

Fancy, 10 lbs. \$2.00. Per lb., postpaid, 30c.

**Orchard (*Dactylis Glomerata*)**

Of the greatest value in permanent pasture mixtures; thrives best in moist, shady places, but will withstand drought exceedingly well. Valued for hay crop, as it is very nutritious if cut early. Its inclination to grow in tufts necessitates other grasses being sown with it.

10 lbs. \$2.35; 100 lbs. \$21.00. Per lb., postpaid, 30c.

**Timothy, (*Phleum Pratense*)**

As a hay crop, timothy is unsurpassed by any other grass. Thrives on ordinary soil, but succeeds best in a moist loam. Best to cut it when in blossom or soon after flowering. Beneficial to sow timothy with red top and red clover, as they produce more of a bottom growth.

10 lbs. \$1.25; 100 lbs. \$11.00. Per lb., postpaid, 20c.

**NOTE.—**We know you can buy cheaper Grass Seeds from other dealers. We offer only the **BEST RECLEANED HEAVY CLEAN SEEDS**—really cheapest to buy.

**Mesquite (*Holcus Lanatus*)**

It is usually sown on virgin soil, without cultivation, after the ground has been burned over.

Fancy Hulled Seed, 10 lbs. \$1.75; 100 lbs. \$16.50. Per lb., postpaid, 25c.

**Italian Rye (*Lolium Italicum*)**

A quick-growing grass, attaining a height of  $2\frac{1}{2}$  to 4 feet; very desirable for meadows or permanent pastures; thrives best on soils that are slightly moist, and will even stand considerable overflow; grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable.

10 lbs. \$1.25; 100 lbs. \$10.00. Per lb., postpaid, 25c.

**Bromus Inermis (*Brome Grass*)**

On account of its strong perennial character, and its unusual drought-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the best of hay for horses or cattle.

10 lbs. \$2.00; 100 lbs. \$18.00. Per lb., postpaid, 30c.

**English Rye Grass (*Lolium Perenne*)**

Perennial. A valuable grass; used for lawn, permanent pasture and mowing mixtures; forms a very compact sward, and if cut when in blossom is very nutritious; very vigorous in most situations.

10 lbs. \$1.50; 100 lbs. \$12.00. Per lb., postpaid, 25c.

## Grass Seeds—Continued

### Red Top (*Agrostis Vulgaris*)

Of great value for mixing with hay or permanent pasture grasses; will succeed in nearly any soil, but thrives best in a rich, moist soil; makes a fine bottom growth, rendering it invaluable to be sown with grasses, such as timothy and orchard.

**Choice Seed**, not hulled, 10 lbs. \$2.00; 100 lbs. \$18.00. Per lb., postpaid, 25c.

**Fancy Hulled Seed**, 10 lbs. \$3.50. Per lb., postpaid, 40c.

### Creeping Bent (*Agrostis Stolonifera*)

Perennial. A grass desirable for either lawns or permanent pastures on account of the fine, firm and enduring turf it produces; especially adapted to moist situations.

Per lb., postpaid, 60c

## FIELD AND MISCELLANEOUS FARM SEEDS

Single pound prices are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to market changes. Seed to cover amount remitted always sent unless otherwise ordered. See notes page 39. Write for prices on larger quantities when ready to buy.

### Artichokes

Planted and cultivated as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, great productiveness, over 1000 bushels having been raised on 1 acre. Easier to grow than potatoes. They need not be dug. If hogs are turned in on them they can easily root the tubers out. One acre will keep from twenty to thirty hogs in fine condition for several months. Said to be a preventive of cholera and other hog diseases. Plant 400 lbs. per acre early in the spring.

**WHITE FRENCH**, most profitable variety. By freight or express, 10 lbs. 40c; 50 lbs. \$1.50; 100 lbs. \$2.50. Per lb., prepaid, 15c; 4 lbs. 50c.

### Barley

**BEARDLESS**.—The earliest barley known. The straw is about the height of the common barley, but better, and will stand up on any land; with good season, land has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. This, as its name implies, is beardless, and as easy to grow and handle as oats. It is becoming more popular each season.

10 lbs. 40c; 100 lbs. \$3.00. Per lb., postpaid, 15c.

**WHITE HULLESS** (Bald Barley).—A grand barley for stock feeding. Grain plump, heavy, and when threshed is hulless like wheat; a heavy cropper. When grown and cut for hay it produces a magnificent crop, which is very rich and almost equal to a grain feed. Much relished by horses and stock of all kinds. An excellent hog feed. Culture same as common barley.

10 lbs. 50c; 100 lbs. \$3.50. Per lb., postpaid, 20c.

**COMMON BARLEY**.—We always aim to have a nice, clean stock of good Seed Barley on hand at all times.

10 lbs. 35c; 100 lbs. \$2.25. Per lb., postpaid, 15c.

### Buckwheat

**SILVER HULL**.—A very good and popular variety; grain is of a light gray color; has a thin husk; matures early, and yields heavily; a good milling variety.

10 lbs. 75c; 100 lbs. \$5.00. Per lb., postpaid, 20c.

Single pound prices on Grass Seed are prepaid. Ten, fifty and one hundred pound prices are NOT prepaid and subject to change. See notes page 39. For amount of seed to sow per acre see table inside back cover.

### Crested Dog's Tail (*Cynosurus Cristatus*)

A perennial grass, forming a smooth and lasting turf, excellent in mixtures for lawns, putting-greens, and pastures. It thrives best on rich, moist land, but can accommodate itself to almost any soil, and, as the roots penetrate deeply into the ground, it can stand severe drought.

10 lbs. \$3.50. Per lb., postpaid, 45c

### Rhode Island Bent (*Agrostis Canina*)

Forms a very fine turf even on light soils; desirable for lawns, as it forms a very close sward.

Per lb., postpaid, 55c

## FIELD AND MISCELLANEOUS FARM SEEDS

JAPANESE.—Good yielder, ripens early; excellent for bee pasture.

10 lbs. 75c; 100 lbs. \$5.00. Per lb., postpaid, 20c.

### Cow Kale

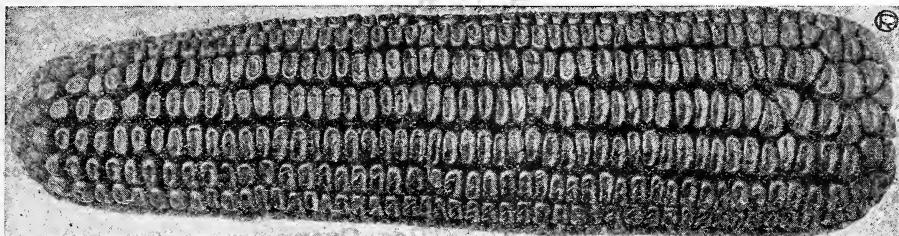
**THOUSAND-HEADED KALE**.—Recommended by agricultural colleges, granges and dairymen who have tested it as one of the most valuable forage plants for this Coast. It grows rapidly and produces a mass of thick, curly green leaves, rich and succulent, which are eagerly eaten by sheep, cattle and horses. Especially recommended for green feed during the dry summer months. Sow thinly in drills two to three feet apart, four pounds to the acre, and thin out as needed, or raise plants and set out. Makes the most rapid growth if sown in the early spring, but can be sown in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow.

Pkt. 5c; oz. 10c; 1/4-lb. 20c; lb., postpaid, 35c.



Thousands-Headed Kale.

This cut is from photo, and gives you a good idea of the size and plant when well grown.



Routledge Pride of the West.

## FIELD CORN FOR OREGON

If you want to raise some good Field Corn, plant our Western grown Seed Corn. The strains we are offering you are acclimated and especially adapted to our short, cool summers. Eastern and Southern grown field corn seed is all right for green fodder, but of little value on this Coast, if you want to raise matured, dry ears.

### Routledge Pride of the West

**(Sample Ears on Display at Our Store.)**  
Oregon grown; acclimated. A grand success in Oregon. We have been raising this variety for years, and by selecting the earliest ripening and best select ears, now have a strain that is a revelation to many people who have thought Oregon and Washington could not raise profitable field corn.

**Routledge Pride of the West Field Corn** is an early maturing variety, producing stalks from 6 to 8 and 10 feet high, and large ears, 8 and 9 inches long. Cobs covered with 14 to 16 rows of deep, yellow kernels. It is a heavy yielder. Many growers report having harvested over 85 bushels per acre. Plant some of this corn this season; you will be pleased with results, we are sure.

Stock limited, so order early. Large pkt. 10c; lb. 20c, postpaid. Not prepaid, 10 lbs. 85c; 100 lbs. \$7.50.

### A FEW REPORTS ON OUR "PRIDE OF THE WEST"

From GLADSTONE, Ore.

Routledge Seed and Floral Co.

Gentlemen: Last year I tried your "Pride of the West." I got a yield of 85 bushels per acre of fine mature Corn. I intend to plant a larger acreage this season.

With proper cultivation and care, I see no reason why Pride of the West cannot be raised and cured in this section of the country.

From LONE ROCK, Ore.

Gentlemen: I bought some of your Pride of the West Field Corn Seed, and was much pleased with results. I am going to plant more this year.

From CLACKAMAS, Ore.

"My neighbors, when they saw me planting your Pride of the West Corn, said that it was no use; it wouldn't mature; but last week (September 10) I began harvesting my crop, and am glad to write that it produced a good crop of handsome, ripe ears of good size and quality. You will get many orders from this section next season."

For HAND CORN PLANTERS see page 33. THEY SAVE SEED and put it where you want it.

### From HALSEY, Ore.

Dear Sirs:

The sample of corn I am sending you is a part of 3000 lbs. just harvested. This was raised on river bottom and is certainly fine.

### Minnesota No. 13—Yellow Dent

A variety of great promise, being the earliest of the early yellow dent corns and reported to be the heaviest yielding. Producing splendid large ears, closely filled from end to end with bright yellow kernels. Grows about 7 feet high and being a rapid, vigorous grower, with heavy foliage, makes a fine fodder corn. Will mature in 90 days under favorable conditions.

Large pkt. 10c; lb. 20c, postpaid. Not prepaid, 10 lbs. 75c; 100 lbs., write.

### Pride of the North—Dent

A quick growing yellow dent variety thriving well where the summers are not very long. Bright golden color. Not Oregon, but Eastern grown.

1 lb., postpaid, 20c. Not prepaid, 10 lbs. 75c; 100 lbs., write.

### Cheat Seed

Cheat seed yields a good crop of hay, especially on low or moist soil, and will stand considerable overflow without harm. Sow in the fall or early spring, the same as oats and about 100 pounds per acre.

10 lbs. 50c; 100 lbs. \$2.75. Per lb., postpaid, 15c.

### Cow Peas

Are really small beans of vigorous habit and heavy foliage of great nutritive value, yielding five to nine tons of green feed per acre, or can be cut and cured like clover. They are great nitrogen gatherers and one of the best fertilizers when turned under. Sow two bushels per acre.

**WHIP-POOR-WILL.**—Upright, or bush growth, earliest maturing, easily harvested.

**CLAY.**—Of vigorous growth. Excellent for ensilage; can be planted in hills with corn.

10 lbs. \$1.00; 100 lbs. \$8.00. Per lb., postpaid, 25c.

## Field Peas

**Field Peas** are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog feed and are quite fattening. Sow, if alone, 100 pounds to the acre; if with other grain, 60 pounds.

**WHITE CANADIAN.**—The leading and most popular kind; seed creamy white; a heavy cropper. **10 lbs. 75c; 100 lbs. write.** Per lb., postpaid, 20c.

**BLUE PRUSSIAN.**—Valuable variety, seed green. Used extensively as a dry soup pea. **10 lbs., 75c; 100 lbs., write.** Per lb. postpaid, 20c.

## ~~~~~ Insure Your Pea Crop ~~~~

Why not be sure of a large heavy crop of peas by inoculating the seed with "Mulford's Cultures?" (See page 36.)

A United States Department of Agriculture Bulletin says:

"It is worse than useless to attempt to grow any leguminous crop without being certain of the presence of the bacteria, which enable the plants to fix free nitrogen. Certain regions are practically devoid of the right kind of bacteria, and unless some artificial means of inoculating with the germ is resorted to, the crop will be a failure." Use Mulfords Culture, page 36.

## Money Making

# OATS

## of Real Merit

### ROUTLEDGE PRIZE OATS

This wonderful new Oat, introduced by us in 1908, has proved in growing contests all we claimed for it. **Routledge Prize** certainly is a prize oat, and a real prize-winner at the county fairs wherever it has been shown. This grand oat belongs to the tree or branching class, and is a vigorous, healthy grower of strong stooing qualities and need not be seeded as heavily as most oats (1½ to 2 bushels per acre is ample). This is the heaviest yielding oat introduced to date. From several hundred samples we sent out, spring of 1908, the lightest yield reported was over 100 bushels per acre, and from that up to 200 and 300 bushels—simply enormous.

Routledge Prize Oat is a very early, drought-resisting variety. Grain of good size, plump and heavy. White seeded variety. Really a spring oat, but some customers report excellent results from fall sowing in the valley here.

Prices: 1 lb. 20c; 3 lbs. 50c, postpaid; not prepaid, peck, 60c; ½-bushel, \$1.00; 1 bushel, \$1.60; 100 lbs., \$4.00.

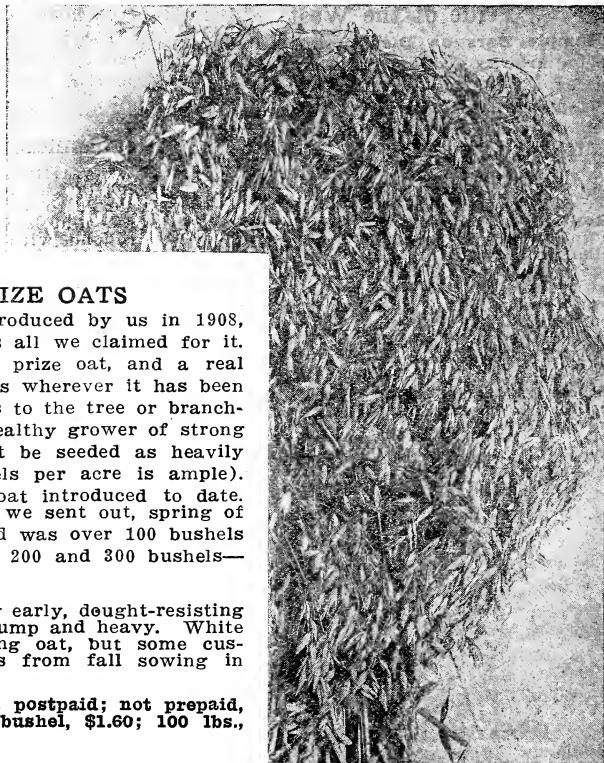
### SHADELAND CHALLENGE

The best white side oat we know of. Hardy, vigorous, early maturing, and still maintains its supremacy as the best, heaviest yielding, general purpose Oat in existence.

"Shadeland Challenge" is a heavy, plump, thin-hulled Oat whose immense heads often measure 18 inches in length, bearing from 250 to 300 kernels. Shadeland Challenge ripens in about 100 days from planting if spring sown, and 100 bu. per acre is not uncommon on ordinary soil. Can be planted in the fall or early as possible in the spring.

Price: 1 lb. 20c; 3 lbs. 50c, postpaid; not prepaid, peck, 50c; bushel \$1.50; 100 lbs. \$3.50.

**DON'T** Practice false economy by buying low-priced grains. It don't pay. Our motto—  
Quality First, Price as Low as we can make it.



Routledge Prize.

### White, Gray or Black Seed Oats

We always aim to have a selected, recleaned stock of good White, Black or Gray Seed Oats. Can sell them at about market price for No. 1 seed. When ready to buy, write us for prices, stating quantity wanted, or order at \$1.25 per bu., 3 bu. \$2.75, and you will get good value.

**Kaffir Corn**

An excellent fodder plant. Seed small and almost round, valuable poultry and pigeon food. It does best sown thinly in drills three feet apart. **10 lbs. 75c; per lb. postpaid, 20c**

**Lentils**

Succeed best in dry, sandy soil. A leguminous annual, the seeds of which are valuable for pigeons and are used largely for soups. The leafy stalks make good forage.

**Per lb. postpaid, 20c**

**Millets**

Sow in April, May or June, 20 pounds for seed or 35 pounds for hay per acre. Must be sown early to mature in Willamette Valley.

**EARLY FORTUNE.**—This variety seems to do extra well here; try it. Heads large and loose, and seed is amber red and three times as large as the German.

**10 lbs. 75c; 100 lbs., write; per lb., postpaid, 20c**

**GERMAN.**—An improved variety, yielding a larger crop of seed than the common millet. It is also taller than the common, and yields a heavier crop of hay.

**10 lbs. 75c; 100 lbs., write; per lb., postpaid, 20c**

**HUNGARIAN.**—A dwarf millet; superior for hay.

**10 lbs. 75c; 100 lbs., write; per lb., postpaid, 20c**

For price on Millet for feed, see Poultry Foods.

**Millet.****Potatoes for Seed—See pages 26-27****Rape, Dwarf Essex**

We offer you true, pure seed. One of the best forage plants, on account of the large amount of green feed it will produce at a season of the year when everything else is dried up. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily. Rape will do well on almost any soil. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre three pounds, in drills; or, if broadcast, five pounds.

**10 lbs., \$1.75; write for quantity prices; per lb., postpaid, 25c.**

**Seed Wheat or Rye**

When ready to buy any variety of Seed Wheat, write us for quotations on quantity wanted or send in your order and we will give full value at lowest market price.

**Speltz—Emmer**

Sow in the spring, the same as wheat, at the rate of two bushels per acre. Cut when the grain is past the middle stage of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. Can be fed whole, rolled like barley, or ground.

**10 lbs. 75c; 100 lbs., write; per lb., postpaid, 20c**

**Sugar Cane or Sorghum**

A valuable crop to grow for fodder or ensilage, as it furnishes an immense tonnage to the acre.

**10 lbs. 75c; 100 lbs., write; per lb., postpaid, 20c**

**Vetches**

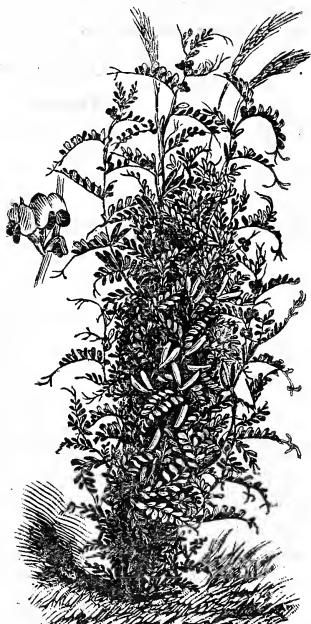
**OREGON VETCH** (*Vicia Sativa*).—Oregon's greatest forage plant. Often called Fall Vetch. Grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon coast. It furnishes an abundance of excellent feed, either green or dried. The seed is generally mixed with wheat, oats or rye having a stiff straw to hold it up. Sown alone 85 pounds or 60 pounds with a bushel of grain per acre. Sow in the fall or early spring.

**10 lbs. 70c; 100 lbs., write; per lb. postpaid, 20c**

**HAIRY SAND OR WINTER** (*Vicia Villosa*).—This variety thrives on poor arid, sandy soils. It is sown in the fall or spring, mixed with rye, which serves to support the plants. Sow 20 pounds per acre.

**Seed very scarce. Write for price.**

Single pound prices are prepaid, but ten, fifty and one hundred pound prices are NOT prepaid and subject to market changes. See notes page 39. For amount of seed to sow per acre see table inside back cover.



**Vetches.**

**THE WISE ONES**  
Will use Mulford's Vetch Culture to inoculate their seed before sowing. There is no question about its VALUE. "Evidence," a new booklet, will prove it. (See page 36.)

## Flower Seed Collections.



**Could You Succeed? Certainly—Why Not?**

There is no reason why every lover of flowers should not have a bountiful supply. With a little intelligent work, the careful preparations of the seed bed, proper planting and cultivation, any one can succeed.

**GENERAL CULTURAL DIRECTIONS** are printed on the back of most all our seed packets (some times this information is printed on little slips and put inside); however, to help you further we will put in each of the following collections our new two-page leaflet giving **special instructions**.

**THE FOLLOWING COLLECTIONS** contain our regular full-size packets of "**Highest Quality**" seeds as described under their respective headings, on the following pages.

We can afford to sell these collections at **reduced prices** as they are put up in advance of the "rush season"—**No change in varieties can be made.**

It is a well-known fact that many of our most beautiful flowers are raised from seeds, and when we consider the comparatively low cost of same, the ease with which most varieties may be grown, and the gorgeous effects they produce, we are convinced that they should be grown more extensively than they are.

**TO AID OUR FRIENDS AND CUSTOMERS** to have gardens that will produce an abundance of bloom for cut flowers as well as for bedding effects, we have prepared the following collections, and offer them at **special prices**. These collections are composed of only choice varieties that will furnish a varied, profuse and continuous display of flowers throughout the entire season.

### "Popular" Collection Hardy Annuals

**\$1.00 worth at catalog prices, for only 65c**

One packet of each of the following 14 kinds — Alyssum, Aster-Crego's, Cosmos, Marigold Mignonette, Nasturtium (tall and dwarf, Pansy), Petuna, Phlox, Poppy, Stocks, Sweet Peas ( $\frac{1}{2}$  oz. Spencers), and Zinnia.



### "Home Beautiful" Collection of Annuals

**\$2.00 worth at catalog prices for only \$1.50**

One packet of each of the following 27 kinds—Ageratum, Alyssm, Aster (Early and Late), Caliopsis, Candytuft, Centaurea, Cosmos, Dianthus, Dahlia, Gypsophila (Baby Breath), Helianthus-New, Lobelia, Marigold, Nasturtium (tall and dwarf), Phlox, Poppy, Ricinus, Salvia, Stocks, Sweet Peas (1 oz.), Giant Spencer, Verbena and Zinnia.

### "Ideal" Collection Hardy Perennials

**\$1.35 worth at catalog prices for only \$1.00**

One packet of each of the following 24 kinds—Arabis, Aquilegia (Columbine), Coreopsis, Campanula (Bell Flower), Delphinium (Hardy Larkspur), Digitalis (Fox Glove), English Daisy, Gaillardia, Gypsophila (Baby Breath), Hollyhock, Phlox, Poppy, Sweet William, Shasta Daisy and Wallflower.

LOOK UP OUR SPECIAL SWEET  
PEA COLLECTIONS PAGES 62 TO  
75.

Can you think of anything nicer than an abundance of flowers for yourself and your friends who have no grounds?



Our flower seeds are grown by specialists and are unsurpassed. The following list contains a general assortment of the choicest and most popular and easiest grown flowers for conservatory, greenhouse or garden culture.

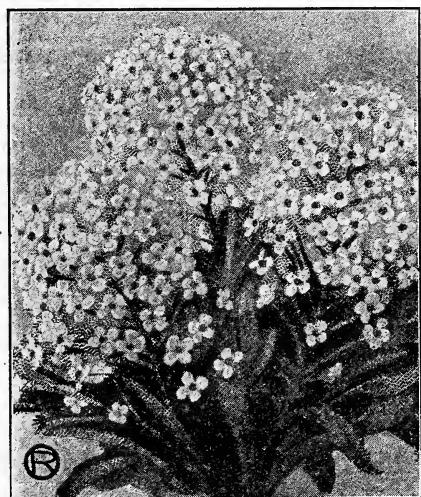
**CULTURAL DIRECTIONS.**—Cultural directions are printed on the back of nearly all packets. Flowers usually succeed best in a sandy loam, made rich with well-rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

**ANNUALS** grow from seed, flower, mature their seed, and die in one year, or, in other words, the same season.

**HALF-HARDY ANNUALS** are those which should be started early in the house, conservatory or hotbed, and transplanted to the garden in settled warm weather.

**HARDY ANNUALS** are those which can be sown in the open ground.

**NOTE.—Half HARDY ANNUALS and H. H. PERENNIALS** are hardy in the WILLAMETTE VALLEY.



Sweet Alyssum.

### Acroclinium

Hardy annual, with everlasting flowers; good for cutting; flowers double and dry nicely if cut in bud; 1 foot; July to October.

**Album.**—Double white.

Pkt. 5c

**Mixed.**—All colors.

Pkt. 5c

**BIENNIALS** grow from seed, sown from June to August, flower, ripen their seed and die the next year, though some varieties bloom the same season if sown early in gentle heat.

**HARDY BIENNIALS** will winter in the open ground without protection.

**HALF-HARDY BIENNIALS** require the protection of a cold-frame or cool-house during winter.

**PERENNIALS** grow from seed, and continue flowering annually for many years after the first season. Some varieties flower the first season if planted early in gentle heat.

**HARDY PERENNIALS** can remain in the open ground during winter without protection.

**HALF-HARDY PERENNIALS** require the protection of a cold-frame or cool-house during winter.

**NOTE.—Half HARDY ANNUALS and H. H. PERENNIALS** are hardy in the WILLAMETTE VALLEY.

### Ageratum

Half-hardy annuals, especially well adapted to edge large beds of geraniums, salvia, coleus or canna; flower continuously through the summer.

**Mexicanum.**—Dwarf, blue. Pkt. 5c; ¼ oz. 25c  
**Album.**—Pure white, dwarf. Pkt. 5c

**Finest Mixed.**—All colors. Pkt. 5c

**Dwarf Little Blue Star.**—New; one of the handsomest blue-flowered dwarf edging plants; grows 5 inches high, and is just covered with small, bright blue flowers. Pkt. 10c

### AGROSTEMMA—Rose of Heaven

**Cœli-Rosa.**—Superb free-flowering, hardy annual, rose-colored flowers; fine for cutting; height 1½ feet; July to September. Pkt. 5c

### ALOYSIA—Lemon Verbena

**Citriodora.**—A greenhouse shrub, valuable for the fragrance of the foliage; 2 feet. Pkt. 10c

### Alyssum

One of the most popular hardy annuals, used especially for edging and also valuable for cutting on account of the fragrance of flowers.

**Sweet.**—Pure white; 6 inches; June to November. Pkt. 5c; oz. 35c

**Little Gem.**—The dwarfest and best for design bedding; plants very compact and bushy, and grow only 3 inches high. Pkt. 10c; oz. 50c

**Saxatile Compactum (Gold Dust).**—Hardy perennial; yellow flowers; April to June; height 9 inches. Pkt. 10c; ½-oz. 20c

**AMARANTHUS**

**Caudatus (Love-Lies-Bleeding).**—Hardy annual; ornamental foliage plant; fine for bedding; green foliage with long, drooping crimson racemes; 2 feet. **Pkt. 5c**

**Cruentus (Prince's Feather).**—Dark red foliage and feathery flowers; 2 feet. **Pkt. 5c**

**Tricolor (Joseph's Coat).**—Ornamental; for foliage only; red, yellow and green. **Pkt. 25c**

**ANTIRRHINUM—Snapdragon.**

Half-hardy perennial and annual; blooms in July if sown early in the house; one of our finest cut flowers; 1½ to 2 feet.

**Queen Victoria.**—New, tall; very large; pure white; superb. **Pkt. 10c**

**Daphne.**—Soft blush pink.. **Pkt. 10c**

**Golden Queen.**—Rich, pure yellow. **Pkt. 10c**

**Defiance.**—Rich orange shade. **Pkt. 10c**

**Tall Giant, Finest Mixed.**—Our seed of this is exceptionally fine. **Pkt. 5c; ½-oz. 25c**

**Dwarf (Semi), Finest Mixed.** **Pkt. 5c; ½-oz. 25c**



Aquilegia—(Columbine).

**AQUILEGIA—Columbine**

Hardy perennials; are most elegant plants and invaluable for cutting or as hardy border flowers; beautiful and graceful; June to September. 2 to 3 feet.

**Benary's Long Spurred.**—Superb mixture of all the most desirable shades. **Pkt. 15c; ½-oz. 50c**

**Single, Finest Mixed.** **Pkt. 5c; ½-oz. 20c**

**Double, Finest Mixed** **Pkt. 5c; ½-oz. 20c**

**ARABIS—Rock Cress**

**Alpina.**—Hardy perennial; pure white flowers in close head; excellent for edging, rockwork or dry situations; 6 inches; April to June. **Pkt. 5c; ¼-oz. 25c**

**ASPARAGUS**

**Plumosus Nanus.**—A graceful pot plant for either house or conservatory (see illustration under Fern Plants); very finely cut, delicate lace-like foliage.

**Pkt. 25c; 100 seeds \$1.00**

**Sprengeri.**—Drooping foliage; adapted for hanging baskets or cutting.

**Pkt. 10c; 100 seeds 50c**

**Asters**

One of the easiest and most satisfactory summer and fall flowers to grow. We take the utmost pains to select seeds from the most perfect flowers only, and wish to assure our patrons that our strains are the superiority of perfection.

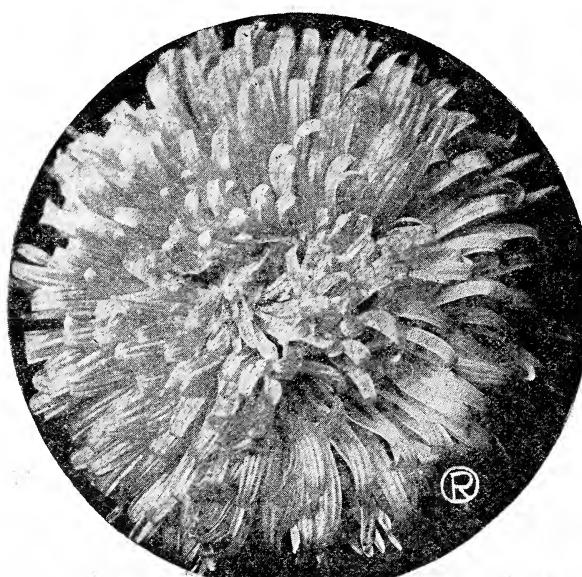
**Improved Giant Crego**

The most beautiful and desirable aster we have ever seen; very hardy, free-flowering and one of the best for general planting; the plant is a strong, healthy grower, and will produce 12 to 15 long-stemmed flowers of the most graceful and pleasing style (see cut). With ordinary care you can grow flowers measuring 5 to 6 inches across. Most of the handsome large aster blooms you see in the Portland flower stores are of this kind.

**Pure White, Shell Pink, Rose, Pink, Lavender or Mixed.**

**Pkt. 10c; ½-oz. 75c**

**SPECIAL.**—One packet each of the four colors only 30c.



Improved Giant Crego Aster.

ASTER PLANTS and all popular annual bedding plants supplied in season. See pages 66 to 68.

**White Fleece**

One of the largest and most perfect of the early flowering (Comet type), bearing flowers 5 inches and over across, formed into a plump globe of glistening white; blooms at the same time as Lavender Gem, making a splendid companion.

Pkt. 15c; 2 for 25c;  $\frac{1}{8}$ -oz. 75c

**Mikado**

Very similar to the Crego's Giant, but more dwarf in growth and comes into bloom fully two weeks earlier. The plants attain a height of about 18 inches, of branching habit, and the flowers, borne on long, strong stems, are of colossal size, five and six inches across. We offer two colors, viz.:

**Mikado Pink** (or Rochester). A charming shade of pink suffused with lavender.

Pkt. 15c; 2 for 25c;  $\frac{1}{8}$ -oz. 75c

**Mikado White.** Of purest glistening white; a magnificent and artistic flower.

Pkt. 15c; 2 for 25c;  $\frac{1}{8}$ -oz. 75c

**New Giant Comet**

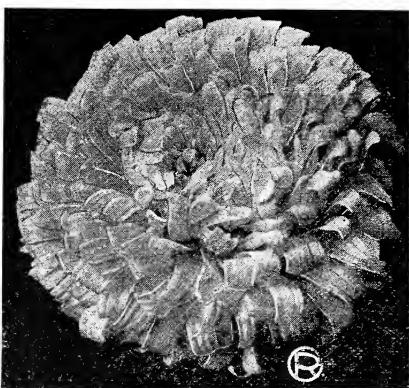
Considered by many to be the most beautiful of all the Asters (see cut). It is an ideal cutting variety, as each plant bears freely exquisitely formed large flowers on long stiff stems.

**Pure White, Pink, Crimson, Violet or Finest Mixed.**

Pkt. 10c;  $\frac{1}{8}$ -oz. 50c

**Lavender Gem.**—One of the best; comet type; early and a charming shade of lavender; excellent in every way.

Pkt. 15c; 2 for 25c;  $\frac{1}{8}$ -oz. 75c



Superb Late Branching.

**New Crimson Giant**

A late-branching variety of upright growth with extra large, densely double flowers of rich blood-crimson; makes a brilliant bed or border and is splendid for cutting. The form of the flower is nicely shown in plate above.

Pkt. 15c; 2 for 25c



Aster—New Giant Comet

Snohomish, Wn., Oct. 15, 1915.

Routledge Seed & Floral Co.

Gentlemen: My Crego Asters were indeed beautiful, admired by all; the Cannas were also grand. My Porch Box flowers were grand and Sweet Peas were twelve feet tall and the largest flowers I ever had.

I am indeed pleased with all my flowers that I got from you, and certainly will tell everyone where I get them. Thank you for all.

Respectfully,  
MRS. OTTILIE McDONALD.

**SUPERB LATE BRANCHING.—**

The most popular late-flowering aster. Flowers are very full large in size and borne on long stiff stems 2 to 2½ feet high. A very desirable, beautiful and satisfactory variety.

**Deep Rose, Dark Blue, Light Blue, Shell Pink, White or Finest Mixed.** Pkt. 10c;  $\frac{1}{8}$ -oz. 60c

**LADY ROOSEVELT.**—A new giant late-flowering, long-stemmed chrysanthemum aster. It has heavy incurving petals; flowers very large and gorgeous lavender pink. Excellent seller as a cut flower; good until frosts.

Pkt. 10c;  $\frac{1}{8}$ -oz. 60c

**QUEEN OF THE MARKET.—**

Most valuable for early cutting; the plants branch freely and produce a great many well-formed flowers nearly a month in advance of the later sorts.

**White, Pink, Lavender or Finest Mixed.** Pkt. 10c;  $\frac{1}{8}$ -oz. 40c

**BABY'S BREATH.**—See Gypsophila, page 54.

**BALSAM—Lady Slipper**

Hardy annual, succeeding best in sunny situations, rich loam and moisture; very showy and of easy culture; 1½ feet; July to September.

**Prize Mixture.**—This strain will produce the most perfectly formed double flowers in the greatest variety of colors.

Pkt. 10c;  $\frac{1}{8}$ -oz. 35c

**Improved Camelia-Flowered Finest Mixed.**—Large, extra double flowers.

Pkt. 5c;  $\frac{1}{8}$  oz. 25c

**BALLOON VINE (Love-in-a-Puff).** A rapidly growing annual climber; succeeds best in light soil and warm situation; flowers white; seed vessels look like miniature balloons and of great interest to children; 8 to 10 feet (see cut). Pkt. 5c;  $\frac{1}{2}$ -oz. 15c

### BEAN

**Scarlet Runner.**—The well-known, rapid-growing annual climber, with bright red flowers, from July to September; height 8 feet. Large pkt. 10c;  $\frac{1}{4}$ -lb. 15c

### BELLIS—Double English Daisy

Popular spring and summer flowering perennial; fine for borders; height 4 inches. Easily raised from seed sown from early spring to September; April to September.

**Double Mixed.** Pkt. 10c

**Longfellow.**—Double pink flowers. Pkt. 10c

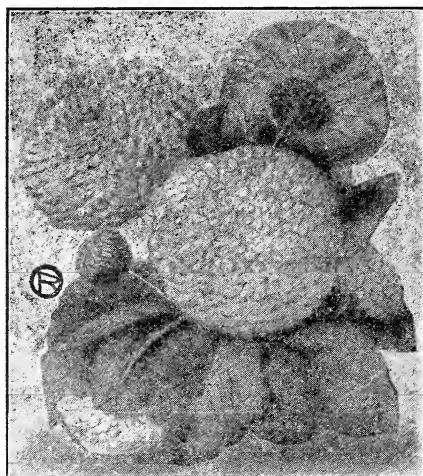
**Snowball.**—Free flowering; pure white. Pkt. 10c

**Giant Red or Giant White.**—Mammoth in size; very rare. Give them rich ground. Pkt. 25c

### BROWALLIA—Amethyst

A very profuse blooming, half-hardy annual bedding plant, bearing during summer and autumn handsome winged flowers of different shades of blue; 1 $\frac{1}{2}$  feet.

**Finest Mixed.** Pkt. 5c;  $\frac{1}{4}$ -oz. 25c



Bellis (English Daisy).

### CALCEOLARIA

An ornamental plant, and a universal favorite; produces a mass of beautiful puffed, pocket-like flowers of brilliant, self-colors and spotted. Our strains of Calceolaria are very fine.

**Hybrida Grandiflora.**—Flowers of immense size; seeds saved from finest specimens. Pkt. 35c

### Calendula—Pot Marigold

Hardy annual; one of the most universal garden flowers. The flowers appear in solitary heads on stout stalks; large, with flat, spreading rays; very showy; flowers the entire season; 1 foot. Double Finest Mixed. Pkt. 5c;  $\frac{1}{4}$ -oz. 20c

Perennial Flowers are rapidly gaining in favor. MORE should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. You gain 1 year by buying our field grown plants. See pages 71 to 76.



Balloon Vine.

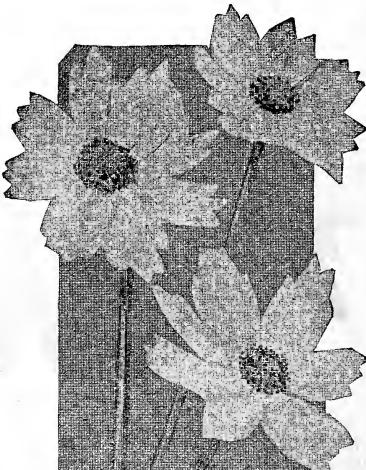
### Calliopsis

Showy and beautiful free-flowering annuals, of the easiest culture, doing well in any sunny position, blooming all summer and excellent for cutting and massing. Don't confuse this with the perennial Coreopsis, page 51.

**Finest Tall Mixed.**—Annual; all shades of yellow, red and brown. Pkt. 5c;  $\frac{1}{4}$ -oz. 20c

**Hybrida Superba.**—Showy new shades. Pkt. 10c;  $\frac{1}{4}$ -oz. 20c

**Golden Ray (Radiata).**—This new Calliopsis, in form like a miniature cactus dahlia, is one of the most beautiful and free flowering; from out of the dark-brown center the petals shade into bright, golden yellow rays, thus giving each flower an elegant and striking appearance; bushes compact and very free in bloom. Pkt. 15c; 2 for 25c



Calliopsis.

### CALLIRHOE—Poppy Mallow

Hardy perennial; beautiful trailing plant, with palmate foliage; flowers large, crimson, with white center; fine for rock-work; 1 foot; June to October. Involverata. Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

**Campanula—Bellflower**

Well-known, beautiful, hardy herbaceous perennials, bearing a great profusion of attractive bellflowers; thrives best in light, rich soil; some of the varieties flower the first season if sown early.

**PERSICIFOLIA GRANDIFLORA** (**Peach Bells**).—Undoubtedly one of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large single flowers.

**Blue, White or Mixed.** Pkt. 10c;  $\frac{1}{2}$ -oz. 50c

**CARPATICA** (**Carpathian Hare-Bell**).—Free-flowering, hardy perennial, continuing in bloom the whole season; color clear blue or white; grows 6 inches high; especially good for edging.

**Blue or White.** Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

**CANTERBURY BELLS** (*Campanula Medium*)

Very ornamental garden plants of easiest culture; excellent for cutting; hardy biennial; 2½ feet high, producing large, bell-shaped flowers of exquisite colors. Hardy biennials. (See plants page 72.)

**Single, Finest Mixed, all colors.**

Pkt. 5c;  $\frac{1}{2}$ -oz. 15c

**Single White, Blue or Rose.**

Pkt. 10c;  $\frac{1}{2}$ -oz. 20c

**Double Mixed, all colors.** Pkt. 10c;  $\frac{1}{2}$ -oz. 25c

**R. R.'s PRIZE MIXTURE.**—A mixture which contains every color and kind of both single and double biennial and perennials.

Pkt. 5c;  $\frac{1}{2}$ -oz. 25c

**CALYCANTHEMA** (**Cup and Saucer Canterbury Bells**).—This is unquestionably one of the finest types; they have an extra large calyx, which is of the same color as the flower, giving the appearance of a cup and saucer.

**Pink, Lilac, Rose, White or Mixed.**

Pkt. 15c; 2 for 25c;  $\frac{1}{2}$ -oz. 50c

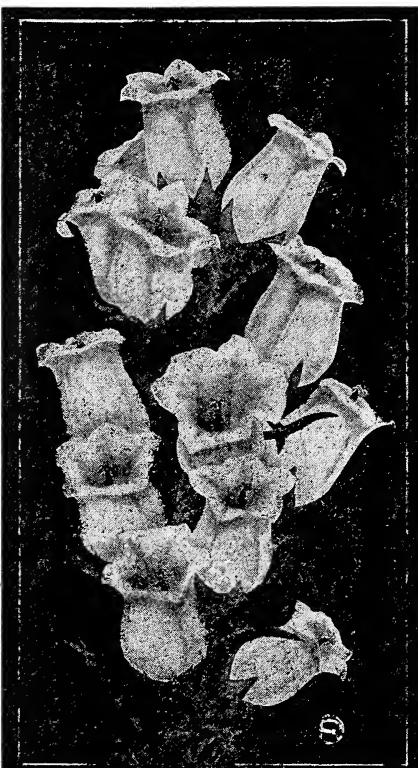
Sedro Woolley, Wn., Aug. 2, 1915.  
Routledge Seed & Floral Co.

Gentlemen: The Sweet Peas started blooming the Fourth of July and are still at it. Have found quite a few of the White Spencers with six blooms, and five is not at all uncommon.

The Cannas and Palms are more than holding their own and I have had hundreds of inquiries as to where I got them.

Yours very truly,

F. A. CRANE.



Canterbury Bells.

**CANARY BIRD VINE**

A rapid-growing summer-climbing annual, 10 to 15 feet high; it will cover trellis work in the most graceful manner, producing hundreds of pretty winged, bright yellow flowers.

Pkt. 5c;  $\frac{1}{4}$ -oz. 20c

**CANNA**

Stately plants. (For Canna Roots, see page 81.)

**Creozy's Hybrids Mixed.** Pkt. 5c; oz. 35c

**Candytuft—Iberis**

Very popular free flowering annual, fine for beds or cutting; 1 foot. June to frost if sown early and late.

**Empress.**—A large flowered variety of pure white; grown extensively for cut flowers; very desirable.

Pkt. 5c;  $\frac{1}{4}$ -oz. 20c

**Pink Beauty (Novelty).**—Fine, true pink; an exquisite flower.

Pkt. 10c

**Dwarf White Little Prince.**—Grows but six inches high and throws up strong trusses of pure white flowers; excellent for edging or bordering.

Pkt. 10c;  $\frac{1}{4}$ -oz. 50c

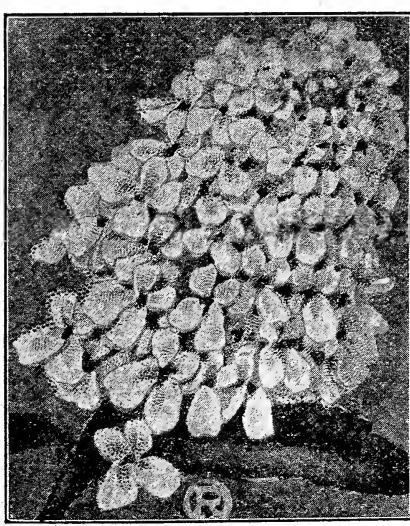
**Crimson.**—Deep rich shade.

Pkt. 5c;  $\frac{1}{4}$ -oz. 15c

**Finest Mixed, all colors.** Pkt. 5c;  $\frac{1}{2}$ -oz. 20c

**Sempervirens.**—Perennial; pure white flowers, evergreen foliage; blooms in June; fine for edging, borders and rockeries, 1 foot.

Pkt. 10c; 1-16 oz. 35c



Candy Tuft.

**BEAUTIFUL FLOWERING PLANTS.**—We have thousands of hardy Flowering Annual and Perennial Plants and Bulbs during their proper seasons. See pages 66 to 69 and 71 to 81.

## Carnation

Everyone loves Carnations. For started plants of the finest named varieties, see page 67.

**MARGARET CARNATIONS.**—The earliest to bloom, and producing large, double, sweet-scented flowers; being half-hardy perennials, if they are slightly protected during the winter they will survive and flower profusely the next spring.

**Red, White or Yellow.**—Large flowers.  
Pkt. 10c;  $\frac{1}{4}$ -oz. 50c

**Choice Mixed.** Pkt. 5c;  $\frac{1}{4}$ -oz. 35c

**Benary's Giant.**—Extra large flowering and of the most beautiful colors.  
Pkt. 15c;  $\frac{1}{4}$ -oz. 65c

## CELOSIA CRISTATA—Cockscomb

Showy annuals of easy cultivation; 1 foot; producing large, brilliant, comb-like flower heads.

**Glasgow Prize.**—Showy, dark crimson combs.  
Pkt. 10c;  $\frac{1}{4}$ -oz. 40c

**Finest Mixed.**—Rich mixture.  
Pkt. 5c;  $\frac{1}{4}$ -oz. 30c

## CELOSIA PLUMOSA—Feathered Cockscomb

The plant grows 2 to 3 feet, is of handsome pyramidal form, and the numerous massive plumes, which resemble an ostrich feather waving gracefully above the foliage, make it one of the most effective; of easy culture.

**Thompsoni Magnifica.**—The most perfect in constant bloom from July to November.  
Finest Mixture. Pkt. 10c;  $\frac{1}{4}$ -oz. 50c

**Thompsoni Golden Yellow.** Pkt. 15c

**Thompsoni Crimson.**—True color. Pkt. 15c

## CENTAUREA—Dusty Miller

These are grown for foliage only; half hardy annuals; leaves are silver-coated.

**Candidissima.**—Thick, white, upright cut leaves; 1 foot. Pkt. 10c

**Gymnocarpa.**—Fine, fern-like leaves, very graceful and showy; 1½ foot.  
Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

## Centaurea Cyanus

**Bachelor's Button, Cornflower.**—Very popular annuals; will grow in the poorest of soil, either on seashore or mountains; seed can be sown either in fall or spring; sandy soil preferable; height, 2½ feet.

**Finest Single Mixed.** Pkt. 5c; oz. 35c

**CENTAUAREA CYANUS fl. pl.** (Double Bachelor's Button).

**Double Blue.**—A beautiful large double flower. Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

**Double Mixed.** Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

## Royal Sweet Sultans

**CENTAUREA IMPERIALIS** (Giant Corn-flower).—The flowers are of enormous size, fragrant and of charming colors; in form they resemble the fuzzy part of the thistle bloom. In colors from white to red to purple. Excellent for cutting.  
Finest Mixed. Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

**ODORATA MARGUERITE.**—Flowers 4 inches across; purest white; very fragrant; July to September; excellent for cutting; flowers full and double.  
Pkt. 10c;  $\frac{1}{4}$ -oz. 40c

**Odorata Finest Mixed.**—All colors.  
Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

**MOSCHATUS (Sweet Sultan).**—Hardy annual, with very fragrant and showy flowers; 1½ feet; June to September.

**Finest Mixed.** Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

**SUAREOLENS (Yellow Sweet Sultan).** Very showy.  
Pkt. 5c;  $\frac{1}{4}$ -oz. 20c



Centaurea Cyanus.

Bachelor's Button.

## CHRYSANTHEMUM

These are very showy flowers of easiest cultivation, flowering from July to frost; excellent for cutting; height 2 feet. (For plants, see page 68.)

**Single Annual, Finest Mixed.**

Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

**Double Annual, Finest Mixed.**

Pkt. 5c;  $\frac{1}{4}$ -oz. 20c

**Japanese Early Flowering (Double Flowering).**—These flower in the open ground from August to November; splendid plants for show effect; height 3 feet.  
Pkt. 15c

**Leucanthemum.**—(See Shasta Daisy, under Daisies, page 51.)

## CINERARIA

**Hybrid Grandiflora.**—We pride ourselves in offering the choicest strain of this gorgeous flower; grand, large blooms in umbel spikes are borne way above the foliage; colors and markings are superb; 1½ feet; tender annual for pots. Pkt. 35c

## Clarkia

A mighty handsome annual; of easy cultivation; flowers resemble carnations and flower freely; colors, white, crimson, orange shades; 2 feet; July to October.

**Elegans.**—Double mixed. Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

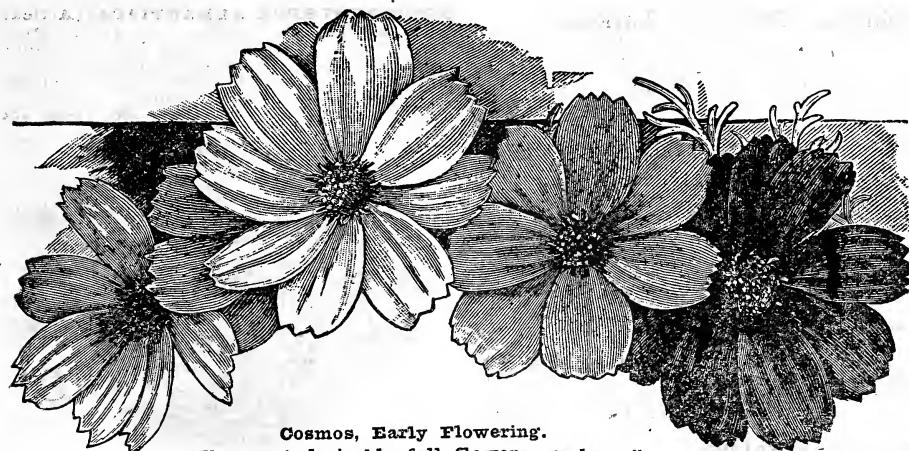
## Cobaea Scandens

Our most popular and rapid climbing annual, flowering the first season. Pretty, purple, bell-shaped flowers appear in great profusion during the fall months; foliage very graceful; 20 feet. Start seed under glass. (For plant, see page 66.)  
Pkt. 10c;  $\frac{1}{4}$  oz. 25c

## COLEUS

Splendid bedding plants, with beautifully colored foliage; easily grown from seed if kept in warm temperature; tender perennial that must be started under glass.

**Benary's Exhibition.**—Superb. Pkt. 25c



**Cosmos, Early Flowering.**  
"The most desirable fall flowers we have."

### Cosmos

Beautiful autumn-blooming plants. They produce thousands of beautiful flowers in pure white, pink and crimson shades, furnishing an abundance of cut blooms for autumn decorations when other flowers are scarce. Can be sown in spring in the open ground, when danger of frost is past, or if wanted early the seed should be started under cover and afterwards transplanted. Set plants not less than 18 inches apart. When about a foot high the tops should be pinched out to induce a bushy growth. They do well almost anywhere.

**BENARY'S EARLY FLOWERING.**—If sown early, flowers can be picked in July. Grows 4 feet high; flowers large and beautiful.

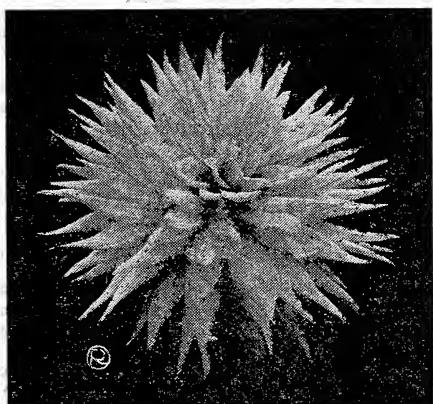
**White, Pink or Mixed.** Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

**KLONDYKE.**—Golden yellow, flowers large and borne on long stems; medium early.

Pkt. 10c

**MAMMOTH PERFECTION.**—Flowers often 4 inches across; plants 7 feet high; blooms do not appear until October. If topped when half grown plants will bloom earlier.

**White, Pink, Red or Mixed.** Pkt. 5c;  $\frac{1}{4}$ -oz. 20c



**Cactus Dahlia.**

A HEDGE of Free Flowering Dahlias is AS BEAUTIFUL and more showy than a hedge of ROSES. They are in full bloom when other flowers ARE SCARCE. See pages 83 to 87.

### Pink Lady Lenox

Gigantic flowers, with wide, overlapping petals of splendid substance, making a perfectly circular flower which is borne on very long stems, in color a beautiful deep rosy-pink.

Pkt. 10c;  $\frac{1}{4}$ -oz. 40c

### Coreopsis

**Danceolata Grandiflora.**—Hardy perennial; with large, showy, bright yellow flowers, produced in the greatest abundance from June till frost. As a cut flower they stand near the head among hardy plants, having long stems and lasting in good condition a week or more. Easily grown from seed, flowering the first year, if sown early under glass. Pkt. 10c;  $\frac{1}{4}$ -oz. 25c (See illustration and plants, page 71.)

### CYCLAMEN

Beautiful plants for the window or greenhouse, with mottled leaves and rich-colored flowers. The strain we offer below has gained a reputation for its large size, perfect form and brilliant colors.

**Giganteum.**—Finest mixed. Pkt. 35c

### CYPRESS VINE

A fast-growing annual vine, with feathery, dark-green foliage and star-like flowers; July to October; 20 feet. Plant early, in light soil and warm location.

**Finest Mixed.** Pkt. 5c;  $\frac{1}{4}$ -oz. 20c

### Dahlia

This very popular flower can easily be raised from seed; started inside in March will produce flowers in August.

**Cactus Mixed.**—Double flowers with pointed petals (see cut). Pkt. 20c

**Double, Finest Mixed.**—Produce flowers of the "Show" or "Decorative Class." Pkt. 10c

**Single Giant Perfection.**—Single flowers of great size and beauty. Pkt. 10c

**DAHLIA BULBS.**—Latest and best. (See pages 83 to 87.)

### Daisies—Shasta Daisy

**SHASTA.**—Very popular and desirable perennial; the large single white flowers are freely produced on long stems. We offer you the best strain in plants or seed. (See cut in Plant Department, page 75.) Pkt. 15c

**DOUBLE DAISIES.**—(See Bellis, page 48.)

**Delphinium—Perennial Larkspur**

(See cut, page 72.) Handsome, hardy perennial plants for the herbaceous border and shrubbery, producing a profusion of splendid spikes of flowers throughout the summer; will usually bloom the first season. (For large plants, see page 72.)

**Cashmerianum.**—18 inches high; large, dark blue flowers; spreading habit.

Pkt. 15c;  $\frac{1}{8}$ -oz. \$1.00

**Chinese Azureum.**—Branches very freely and produces its flowers in greatest abundance; clear, deep blue; height 3 feet.

Pkt. 5c;  $\frac{1}{8}$ -oz. 15c

**Belladonna.**—Very free and continuous bloomer; delicate and beautiful; clear turquoise blue.

Pkt. 25c; 5 pnts. \$1.00

**Formosum.**—Long-spurred, brilliant blue flowers, with white center; 3 feet; July to October.

Pkt. 5c;  $\frac{1}{8}$ -oz. 25c

**Elatum Hybridum.**—Superb collection of finest double blue varieties; 3 to 5 feet.

Pkt. 15c;  $\frac{1}{8}$ -oz. 50c

**Digitalis—Foxglove**

Hardy perennials; very desirable for effective massing or grouping; invaluable either in the hardy border, between shrubs or in solid beds; 3 to 5 feet. For strong flowering plants, see page 73.

**Beauty Mixture.**—Comprising all the choicest colors.

Pkt. 5c;  $\frac{1}{8}$ -oz. 50c

**Gloxiniaeflora, Finest Mixed.**—Flowers spotted similar to Gloxinias.

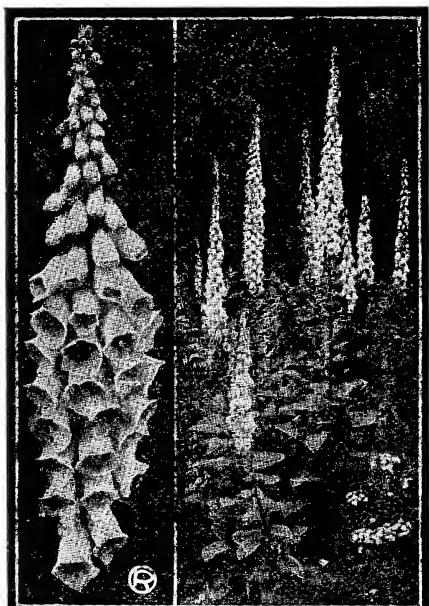
Pkt. 5c;  $\frac{1}{8}$ -oz. 25c

**Gloxiniaeflora Rosea.**—Very desirable.

Pkt. 10c;  $\frac{1}{8}$ -oz. 30c

**Montrosa (Mammoth Foxglove).**—The tall spikes are surmounted by one monstrous flower; all colors mixed.

Pkt. 10c;  $\frac{1}{8}$ -oz. 50c



Digitalis—Foxglove Plant and Flower Spike

**DIMORPHOTHECA AURANTIACA (African Golden Daisy).** Hardy annual, a great favorite on account of its handsome golden-orange flowers, which are borne most profusely all summer; 15 inches. Does well in dry situations.

Pkt. 10c;  $\frac{1}{8}$ -oz. 25c



Dimorphotheca—African Golden Daisy.

**Dianthus—Garden Pink**

All the varieties listed below are very desirable, and will flower the first season, even sown out of doors in May; they flower early and continue throughout the entire summer; they are excellent for cutting, and bedding; 1 foot.

**CINENSIS fl. pl. (Chinese Pink).**—Large, double flowers in unlimited variety of bright colors.

**Finest Mixed.** Pkt. 5c;  $\frac{1}{8}$ -oz. 20c

**HEDDEWIGII fl. pl. (Double Japan Pink).** Beautiful rich colors.

**Finest Mixed.** Pkt. 5c;  $\frac{1}{8}$ -oz. 25c

**FIREBALL.**—New, extra double, brilliant, dark scarlet; very beautiful.

Pkt. 10c;  $\frac{1}{8}$ -oz. 30c

**SNOWDRIFT. (Lancineatus).**—Extra large, pure white, double, fringed.

Pkt. 10c;  $\frac{1}{8}$ -oz. 35c

**BENARY'S PRIZE MIXTURE.**—Very rich.

Pkt. 5c;  $\frac{1}{8}$ -oz. 25c

**SEMPERFLORENS (Perennial Hardy Ever-blooming Garden Pinks).**—Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors.

Pkt. 10c;  $\frac{1}{8}$ -oz. 25c

**DOLICHOS—Hyacinth Bean**

Annual climbers; beautiful foliage and clusters of hyacinth-like purple and white flowers, borne in clusters; 10 feet; July to September.

**Daylight.**—Snow-white flowers. Pkt. 10c

**Mixed.**—White and purple. Pkt. 5c; oz. 25c

**Eschscholtzia—California Poppy**

One of the most popular garden annuals; 1 foot. Sow the seed where plants are to remain in the fall or early spring. It stands considerable cold and blooms early profusely and continuously until July. Later sowings for late flowers. (See cut, opposite page).

**Finest Mixed.**—All shades. Pkt. 5c; oz. 30c

**Californica.**—Bright yellow. Pkt. 5c; oz. 30c

**Alba.**—Pure white. Pkt. 5c; oz. 35c

**Carmine.**—A beautiful rose carmine. Pkt. 10c; oz. 40c

**Golden West.**—Very large, bright yellow flowers with orange centers.

Pkt. 10c; oz. 35c

**OUR 32-PAGE NURSERY CATALOG**—For complete descriptions and illustrations of our full list of Fruit Trees, Berry Bushes, Roses, Flowering Shrubs and Vines, Shade Trees, Evergreens, etc., ask for our EULB AND NURSERY CATALOG, sent free on request. Remember, we have NO AGENTS and prepay freight or express charges.

**ECHINOCYSTIS LOBATA—Wild Cucumber**

The fastest-growing annual vine in existence; will grow 20 feet in six weeks; pretty foliage and inconspicuous white flowers; soak seed in water over night before planting in dry weather.

Pkt. 5c;  $\frac{1}{2}$ -oz. 20c

**Gaillardia—Blanket Flower**

Splendid, showy plants for beds or borders; excellent for cutting; the hardy perennial varieties; if sown early will bloom the first season; July to frost; 1½ feet. (Field-grown plants, page 73.)

**Grandiflora Superba.**—Hardy perennial; splendid mixed varieties; in crimson and gold; 2 feet. Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

**Grandiflora Semi-plena.**—A superb mixture of hardy, perennial, semi-double kinds.

Pkt. 15c;  $\frac{1}{8}$  oz. 25c

**Picta Lorenziana.**—Hardy annual; double mixed colors; 2 feet. Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

**GERANIUM**

**Finest Mixed Hybrids.**—Pkt. 25c. (Strong plants, page 66.)

**GLOXINIA**

Showy free-flowering greenhouse plants.

**Hybrida Grandiflora.**—The best strain in existence, embracing all the choicest self-colored, tigered and spotted flowers.

Pkt. 25c

**GOMPHRENA—Globe Amaranth**

A dwarf hardy annual, with pretty clover-like beads of purple, white and red flowers; 2 feet; flowers everlasting.

**Finest Mixed.** Pkt. 5c;  $\frac{1}{4}$ -oz. 20c

**Godetia—Satin Flower**

This showy, hardy annual deserves greater popularity. Mallow-like flowers, varying from white to all shades of pink and crimson. They grow rapidly, and flower profusely; of easy cultivation, both at seashore or mountain resorts; 1½ feet; July to October.

**Finest Mixed.** Pkt. 5c;  $\frac{1}{4}$ -oz. 20c



Echinocystis Lobata.  
Wild Cucumber.

**Gourds**

**ORNAMENTAL.**—Fast-growing annual vines; cucumber-like foliage; creamy white flowers and bearing gourds of the most interesting forms and colors.

**Calabash.**—The famous pipe gourd, dipper shaped. Pkt. 10c; oz. 50c

**Egg, Orange, Turk's Turban, Pear, Spoon, or Mixed,** all kinds. Pkt. 5c;  $\frac{1}{4}$ -oz. 10c



Ornamental Gourds.

**GYNERIUM—Pampas Grass**

**Argenteum.**—Hardy perennial; the famous pampas grass, with beautiful silvery plumes; 10 feet. (For strong plants, see page 74.)

Pkt. 10c

A HEDGE of Free Flowering Dahlias is AS BEAUTIFUL and more showy than a hedge of ROSES. They are in full bloom when other flowers ARE SCARCE. See pages 66 to 71.

**Eschscholtzia.**  
California Poppy.

A HEDGE of Free Flowering Dahlias is AS BEAUTIFUL and more showy than a hedge of ROSES. They are in full bloom when other flowers ARE SCARCE. See pages 66 to 71.

## Gypsophila—Baby's Breath

Pretty free flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers. The annuals should be sown early in the spring and mid-summer for a continuous supply.

**Elegans Alba.**—Hardy annual, easily grown from seed; flowers pure white; 2 feet; June. **Pkt. 10c; ½-oz. 25c**

**Elegans Rosea.**—Hardy annual; flowers bright rose; very dainty; 2 feet. **Pkt. 5c; ½-oz. 25c**

**Muralis.**—Hardy annual; plants dwarf, about 6 inches; flowers shell pink; fine for borders or rock work. **Pkt. 10c; ½ oz. 20c**

**Paniculata.**—Hardy perennial; one of the finest for cutting; pure white flowers, very small, and borne in large, delicate sprays; June to September; 3 feet. **Pkt. 10c; ½-oz. 25c**

(For strong roots of *G. Paniculata* for immediate effect, see page 73.)

**Paniculata Fl. Fl.**—New perennial; double-flowering; most desirable and valuable; pure white. **Pkt. 25c; 2 for 35c**



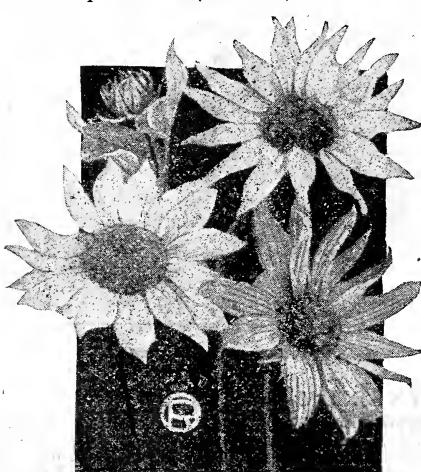
## Helianthus—Sunflower

The single annual Sunflowers are indispensable for cutting and a bright display of yellow flowers in the garden, borders or among shrubs. Plant early in a sunny place and they will come into bloom early in the summer and keep up a constant supply of flowers until cut down by severe frosts in the fall. We offer some improved types of special merit.

**Cucumerifolius—Stella** (Improved Miniature Sunflower). Grows about 3 feet tall, covered with large single 5 to 6 inch flowers of the purest golden yellow, with black disc. **Pkt. 5c**

**Orion.**—Artistic and effective new variety of "Stella." The petals are twisted like a Cactus Dahlia. **Pkt. 10c**

**New Miniature Mixed.** A multitude of new varieties have been raised from the popular Miniature Sunflower, which we offer in mixture. They all differ from the parent, most of them being larger, and many with curiously twisted petals. The prevailing colors are pale yellow, golden yellow and creamy white, some with black centers, and all beautiful; for cutting they are indispensable. (See cut.) **Pkt. 10c**



Helianthus—New Miniature.

**MORE HARDY FLOWERING SHRUBS** should be planted in the West—they give no trouble, increase in size and grow more beautiful year by year. See Nursery Catalog—Free.

## Gypsophila. ANNUAL Baby's Breath.

**Globosus Fistulosus** (Globe or Dahlia Sunflower). Flowers large, double, very full in the center and of a rich saffron color; 6 feet. **Pkt. 5c; ½-oz. 20c**

**Perennial Mixed.**—A choice mixture of the best perennial varieties. **Pkt. 10c; ½-oz. 50c**

## Heliotrope

Delightfully fragrant, tender perennial; popular pot and garden bedding plant; also for cutting. Some of the best plants may be raised from seed very readily; 1½ feet; start inside or under glass.

**MIDNIGHT.**—New; handsome, large flowers, lively shade of purple; foliage beautiful dark green; stem black. **Pkt. 15c**

**Finest Mixed.**—All colors. **Pkt. 5c; ½-oz. 35c**

## Hollyhocks

Very popular perennials. Easily grown.

**ALELEGHENY.**—Semi-double; mammoth flowers, having the edges of the petals finely fringed and lacinated; will bloom the first year if sown early.

**Choicest Mixed Colors.** **Pkt. 10c; ¼ oz. 50c**

**DOUBLE GERMAN EVER-BLOOMING.**—Will bloom the first year from seed, if sown early. **Pkt. 5c; ¼-oz. 40c**

**NEW ANNUAL EVER-BLOOMING.**—This is one of the best introductions of late years. Seeds sown in the house in March will produce flowers in July on plants 4 feet high; the plants do not attain their perfection until their second year, when they grow 7 to 10 feet high, and flower continuously from June till frost.

**Single Mixed.** **Pkt. 5c**

**Double Mixed.** **Pkt. 10c**

**CHATER'S IMPROVED.**—Our strain of this is the best that can be produced; seeds saved from the most double flowers.

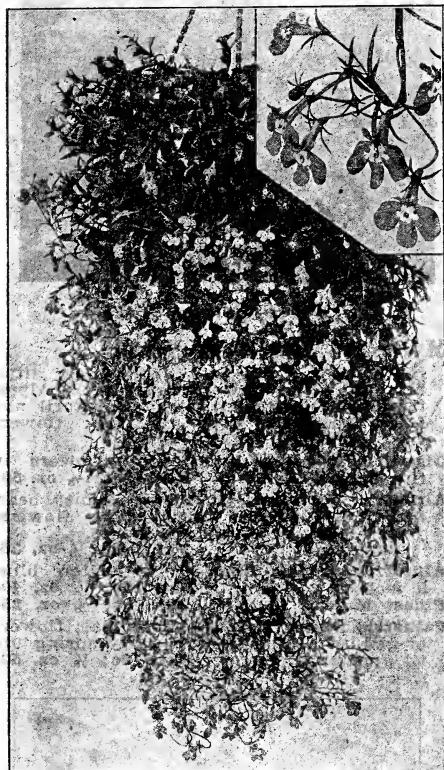
**White, Pink, Crimson, Yellow, Lilac or Mixed.** **Pkt. 10c; ¼-oz. 50c**

**KOCHIA—Tricophylla**

**Summer Cypress or Burning Bush.**—Annual; forms dense bushes of upright plumage-like foliage; during the summer they remain light green and in early fall they change to carmine and blood red; 2 feet; makes a dainty and showy hedge or nice single specimens. **Pkt. 5c; 1/4-oz. 25c**

**LATHYRUS LATIFOLIUS**

**Perennial Sweet Pea.**—Free flowering, hardy perennial climbers, bearing beautiful flowers all season. **White or Pink.** **Pkt. 10c; 1/2-oz. 25c** **Mixed.** **Pkt. 5c; oz. 35c**

**Lobelia—Sapphire.****Lobelia**

**Erinus Gracilis.**—Trailing bright blue flowers; excellent for vases, hanging baskets and window boxes. **Pkt. 5c; 1/2-oz. 25c**

**Hybrida Sapphire (New).**—This is by far the most beautiful trailing Lobelia to date; very large, deep sapphire blue flowers, with a large and clear white eye; very free and early flowering; extra long trailer, for baskets and boxes. **Pkt. 15c**

**Crystal Palace Compacts.**—Little dwarf bedding plant; dark blue flowers cover the whole plant during the entire season; very compact and used extensively in carpet bedding or edging; height 4 inches. **Pkt. 10c; 1/2-oz. 50c**

**White Gem.**—Compact little plants, covered with snow-white flowers. **Pkt. 10c**

**Cardinalis (Cardinal Flower).**—Hardy perennial, with spikes of deep cardinal red flowers; August and September; 3 feet. **Pkt. 15c**

**Humulus—Japanese Hop**

Hardy annual climber; of rapid growth; attains a height of 12 feet.

**Japonica Variegata.**—Foliage green and white; very pretty and effective; not affected with insects. **Pkt. 10c; 1/4-oz. 25c** **ENGLISH HOP ROOTS.** **Each 10c**

**HUNNEMANIA**

**Fumariaefolia (Giant Yellow Tulip Poppy).**—Hardy annual; foliage fern-like; flowers tulip-shaped, golden yellow; very showy; July to frost. **Pkt. 5c; 1/4 oz. 25c**

**IPOMOEA—Moonflower**

**Grandiflora Alba.**—Large, heart-shaped leaves, and large, pure white flowers, which open only late in the evening; 10 feet. **Pkt. 10c**

**Larkspur**

These are splendid, hardy annuals, which, when grown in beds or borders, make a pleasing effect, and the slender flower stalks, when cut, are most desirable for vases; July to October.

**Dwarf German Rocket.**—1 foot; compact growing bush; splendid spikes of double flowers in all colors. **Mixed.** **Pkt. 5c; 1/4-oz. 20c**

**Giant Hyacinth Flowered.**—3 feet; fine, compact spikes of beautiful flowers. **Pkt. 5c; 1/4-oz. 20c**

**Emperor.**—Tall, slender spikes of exquisite double flowers in unlimited quantity; 3 feet. **Mixed.** **Pkt. 5c; 1/4-oz. 20c**

**PERENNIAL LARKSPUR.**—(See Delphinium, page 52.)

**KUDZU VINE**

**Pueraria Thunbergiana.**—Tender perennial climber from Japan, growing 30 to 50 feet in a single season. **Pkt. 10c**

**LUPINUS**

Ornamental, free-flowering, easily grown, with long, graceful, upright spikes of rich and variously colored pea-shaped flowers; valuable for mixed borders and beds.

**Annual Dwarf Mixed.**—1 foot. **Pkt. 5c; 1/4-oz. 15c**

**Polyphyllus Mixed.**—Showy perennials, growing stout and erect; good for cutting; flowers in great variety of colors; 3 to 4 feet; May and June. **Pkt. 15c; 1/2-oz. 25c**

**MARVEL OF PERU—Four o'Clock**

Hardy annual, flowering from July to October; brilliant colors; 3 feet. **Finest Mixed.** **Pkt. 5c; oz. 25c**

**Marigold—Tagetes**

Widely grown, hardy annuals; invaluable for bedding and producing an elegant display of yellow, orange and brown flowers from early summer till frost.

**Mammoth African, Finest Mixed.**—Very large and double, orange-yellow flowers; 2 to 3 feet. **Pkt. 5c; 1/4-oz. 25c**

**Double French.**—Flowers double, brown-red and golden-yellow; very rich and pretty. **Tall or Dwarf Mixed.** **Pkt. 5c; 1/4 oz. 25c**

**MESEMBRYANTHEMUM**

Dwarf trailing plants of great beauty, blooming the whole summer, thriving best in a dry, loamy or sandy soil; hardy annuals; 12 to 15 inches.

**Tri-color.**—Very dainty, pointed petaled, salmon-pink flowers. **Pkt. 10c**

**Crystallinum (Ice Plant).**—Flowers white; prized for its singular icy foliage. **Pkt. 5c**

**Mignonette—Reseda**

A universal favorite; very fragrant; no home garden is complete without Mignonette. It needs a cool soil only moderately rich; grows 6 to 12 inches high and is treated as a half-hardy annual; sown treated as a half-hardy annual. (See cut.)

**Grandiflora.**—Large-flowering, sweet, fragrant, spikes of greenish yellow color.

Pkt. 5c; oz. 15c

**Defiance.**—Giant spikes; flowers abundant and very fragrant. Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

**Macbeth Red.**—Excellent for pots or garden; highly colored, fragrant flowers.

Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

**White Pearl.**—New; the best white flower; very attractive. Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

Don't overlook  
on page 44  
our New  
Flower Seed  
Collections.



Mignonette—Flower Spikes.

**MIMULUS—Muskplant**

**Moschatus.**—A tender trailing plant with small yellow flowers, giving forth a musk-like fragrance; 6 inches. Pkt. 10c

**MORNING GLORY—Ipomoea Purpurea**

The tall varieties are popular, well known, rapid-growing climbers of the easiest cultivation; very fine for covering arbors, trellises, porches, etc.; the Minor or Dwarf varieties flower very freely and do not require support.

**Convolvulus Major.**—Tall, choice, single mixed; all colors. Pkt. 5c; oz. 15c

**Convolvulus Minor.**—Dwarf mixed. Pkt. 5c; oz. 15c

**Imperial Japanese Fringed.**—These have very large fringed flowers in a great variety of the most exquisite colorings; handsome foliage. Pkt. 10c; oz. 25c

**Japanese Double Mixed.** Pkt. 15c

**Choice Prize Mixture.**—This is a mixture of both American and Japanese varieties; very choice. Large Pkt. 10c; oz. 20c

(Note.—Soak the Japanese Morning Glory seed in warm water for 24 hours before planting.)

**Myosotis—Forget-Me-Not**

Half-hardy perennials, producing little blue, star-like flowers profusely. Alpestris and Dissitiflora bloom in April and May; Palustris, May till fall; flowers first season if started early.

**Dissitiflora.**—Rich blue; early flowers in fine sprays; 6 inches. Pkt. 10c;  $\frac{1}{4}$ -oz. 50c

**Alpestris Victoria.**—Of bushy habit; bearing large, double, bright blue flowers; yellow eye; very fine; 6 inches.

Pkt. 10c;  $\frac{1}{4}$ -oz. 35c

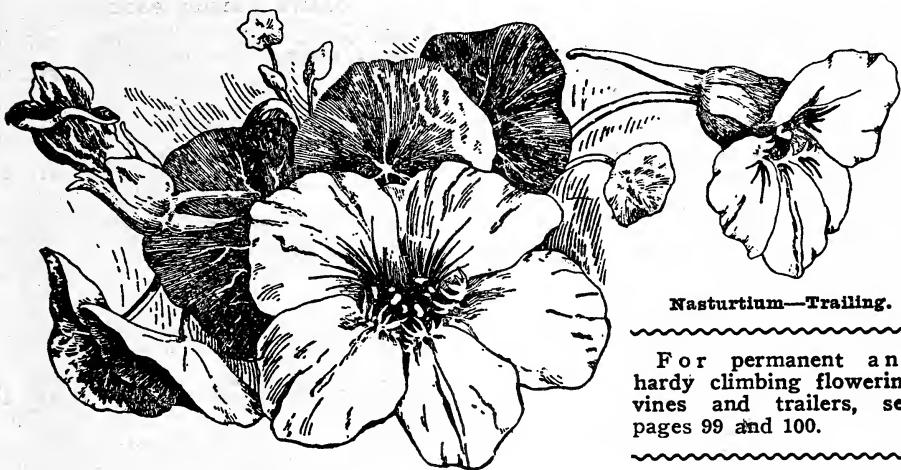
**Alpestris Royal Blue.**—Rich indigo blue; 9 inches. Pkt. 15c;  $\frac{1}{4}$  oz. 40c

**Finest Mixed.** Pkt. 5c;  $\frac{1}{4}$  oz. 25c

**Palustris Semperflorens.**—Perennial; flowers bright blue; blooms from early spring until autumn. Pkt. 10c;  $\frac{1}{4}$  oz. 50c



Myosotis—Forget-Me-Not.



Nasturtium—Trailing.

For permanent and hardy climbing flowering vines and trailers, see pages 99 and 100.

### Nasturtium—Tall Climbing

The most popular and most beautiful annual climbing vines. We offer only the finest strains, producing the largest and richest flowers.

**Asa Gray.**—Yellowish white; very fine.

**Black Prince.**—New; very dark.

**Crown Prince.**—Rich blood red.

**Golden Queen.**—Very fine yellow.

**Margaret.**—Yellow, spotted red and yellow.

**Primrose.**—Cream, brown spots.

**Regina.**—New salmon shade.

**Spitfire.**—Bright fiery scarlet.

Pkt. 5c; full collection, 8 kinds, 30c; per oz., any kind, 20c.

**TALL PRIZE MIXTURE.**—This is undoubtedly the finest mixture of tall Nasturtiums offered anywhere; every shade is grown separately and then mixed.

Large Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50

**Tall Choice Mixed.**—A very fine selection of beautiful varieties.

Large Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 75c

**IVY-LEAVED, FINEST MIXED.**—The ivy leaves, borne on very slender stems, are of a dark metallic color, which forms a striking contrast to the crimson scarlet flowers; an excellent variety for vases, hanging baskets, etc.

Pkt. 10c; oz. 25c

**VARIEGATED QUEENS.**—A new strain of tall Nasturtiums having beautifully variegated leaves; green, white and yellow; flowers large and of many bright colors.

Superb Mixed.

Pkt. 10c; oz. 25c

### Dwarf Nasturtiums

**R. E.'s DWARF BEAUTY MIXTURE.**—Composed of new and rare sorts; exceedingly brilliant and beautiful.

Large Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50

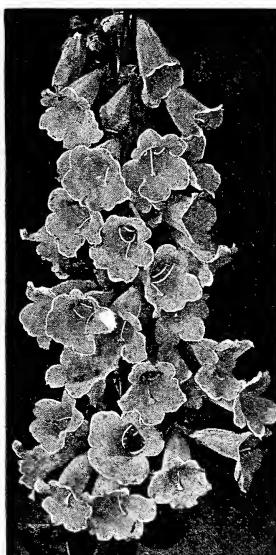
**Choice Dwarf Mixed.**—Not equal to above, but far superior to most mixtures.

Large Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00

**GOLDEN MIDNIGHT (New Dwarf).**—A novelty of real merit. From an artistic point of view the contrast between the light foliage and extremely dark flowers is most remarkable. The foliage is light yellow, variegated, while the flowers are deep crimson, almost black, hence the name "Golden Midnight."

Pkt. 10c; oz. 25c

**NICOTIANA AND NIGELLA, SEE PAGE 63.**



Pentstemon.

**Giant Pansies**

This popular flower thrives best on a cool, moist, but well-drained soil enriched with well-rotted barnyard manure or fine ground bone. Seeds sown early will produce fine plants for autumn blooming. The proper method, though, is to sow in July or August and protect the plants during the winter, when they will flower continuously early the following spring and summer.

**EXHIBITION PRIZE MIXTURE.**—For variety of markings, beauty of form, large size, splendid texture this superb strain cannot be excelled. **Pkt. 20c;  $\frac{1}{8}$ -oz. \$1.50**

**E. J. Steele's Mastodon.**—Giant strain; Oregon grown seed.

**Mixed.** **Pkt. 25c;  $\frac{1}{8}$ -oz. \$2.00**

**Bugnot's Large Blotched.**—A magnificent strain; very large flowers; great diversity of colors. **Pkt. 25c;  $\frac{1}{8}$ -oz. \$1.00**

**Cassier's Giant, Finest Mixed.**—Strong-growing strain, producing rich and varied-colored flowers of large size. **Pkt. 15c;  $\frac{1}{8}$ -oz. 75c**

**English Show Strain.**—A splendid strain, valued for the texture and varied markings of the flowers. **Pkt. 10c;  $\frac{1}{4}$ -oz. \$1.00**

**Choice Mixed.**—A fine bedding strain. **Pkt. 5c;  $\frac{1}{4}$ -oz. 50c**

**GIANT TRIMARDEAU.**—The most popular strain for this locality, and deservedly so, on account of the strong, sturdy plants and the enormous flowers of the greatest variety of colors.

**Finest Mixed.** **Pkt. 10c;  $\frac{1}{4}$  oz. 75c**

**Masterpiece.**—Elegant ruffled petals; beautiful large flowers, mostly rich dark shades. **Pkt. 25c;  $\frac{1}{8}$ -oz. 75c**

**GIANT NAMED PANSIES**

**Adonis.**—Light blue; beautiful. **Pkt. 10c**

**Golden Queen.**—Pure rich yellow. **Pkt. 10c**

**King of Blacks.**—Best velvety black. **Pkt. 10c**

**Lord Beaconsfield.**—Very beautiful; violet purple, shading to white. **Pkt. 10c**

**Madam Perret.**—Fine wine red shades on white. **Pkt. 10c**

**Snowflake (Candidissima).**—Pure white. **Pkt. 10c**

**Sunlight.**—New yellow, orchid flowered. **Pkt. 15c**

**Purple-Eyed White.**—Very beautiful. **Pkt. 10c**

**Black-Eyed Yellow.**—Very fine and effective. **Pkt. 10c**

**NICOTIANA**

**Affinis (Tuberose-flowered Tobacco).**—Delightfully sweet-scented, pure white, tubular flowers, blooming continually; annuals; 2 to 3 feet. **Pkt. 5c; 1/4-oz. 25c**

**NIGELLA—Love in a Mist**

**Damascena.**—A compact, free flowering plant with finely cut foliage, curious looking flowers and seed pods; hardy annuals; blue and white; 1 foot.

Mixed colors. **Pkt. 5c; 1/4-oz. 15c**

**Miss Jekyll.**—A lovely variety with cornflower blue blossoms; splendid for cutting. **Pkt. 10c; 1/4-oz. 25c**

**Phlox**

**Drummondii.**—These varieties are the largest flowering of the annual phloxes. They are the very finest strains that can be selected, and should be grown in everyone's garden; 12 to 15 inches.

**Alba.**—Pure white. **Pkt. 10c; 1/8-oz. 25c**

**Coccinea.**—Bright scarlet. **Pkt. 10c; 1/8-oz. 25c**

**Leopoldi.**—Rose, white eye. **Pkt. 10c; 1/8-oz. 25c**

**Grandiflora Mixed.**—All colors. **Pkt. 5c; 1/4-oz. 35c**

**HARDY PERENNIAL PHLOX (Decusata).**—These rank among the finest herbaceous perennials for beds and borders; mixture of the finest colors; 3 feet. (See plants, page 74.) **Pkt. 10c; 1/8 oz. 35c**

**PINK.**—(See Dianthus, page 52.)



Phlox Drummondii.

**Poppy—Papaver**

**King Edward.**—New annual of gorgeous coloring; deep scarlet shaded; each petal marked with a big black blotch; yellow anthers; flowers large and freely produced; 2½ feet. **Pkt. 10c; 1/4-oz. 25c**

**Admiral (Annual).**—A single variety of surpassing beauty; large flowers of glistening white, with a broad band of brilliant scarlet around the top; produce a magnificent effect. **Pkt. 5c; 1/4-oz. 25c**

**Miss Sherwood (Annual).**—Single, bears large flowers of a satiny white, shaded a silky chamois rose, a combination of rare delicacy. **Pkt. 5c; 1/4-oz. 25c**

**PERENNIAL FLOWERS** are rapidly gaining in favor. **MORE** should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. See pgs. 71 to 80.

**Shirley (Annual).**—Charming Poppies. Flowers single and semi-double, and range in color from the purest white through the delicate shades of pale pink, rose and carmine to the deepest crimson and blood-red, while many are daintily edged and shaded. The petals are like silk. Free blooming and fine for borders or beds; 1½ to 2 feet. **Pkt. 5c; oz. 40c**



Shirley—Poppy.

**Carnation Flowered (Annual).**—Splendid double fringed flowers. **Mixed Colors.** **Pkt. 5c; 1/4-oz. 15c**

**Annual Superb Mixture.**—A superior strain, containing the choicest of single and double varieties in all of the brightest colors. **Pkt. 5c; oz. 50c**

**ICELAND, OR NUDICAULE (Perennial).**—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks, about 12 inches in height, bearing beautiful brilliant single flowers in endless profusion, and most useful for cutting. (For plants, see page 73.)

**Yellow, White, Scarlet or Mixed.** **Pkt. 10c; 1/4-oz. 50c**

**Double Iceland Mixed.**—Very choice. **Pkt. 15c; 1/8-oz. 50c**

**ORIENTALE BRILLIANT.**—This is the most gorgeous perennial Poppy, flowering in June and July, with enormous vivid scarlet blossoms. **Pkt. 10c; 1/4 oz. 50c**

**Oriental Princess Victoria Louise.**—Salmon pink; very silky and delicate. **Pkt. 15c**

**Oriental Psyche.**—Delicate rosy blush. **Pkt. 15c**

**CALIFORNIA POPPY.**—(See Eschscholtzia, page 52.)

**PYRETHRUM—Golden Feather**

**Aureum.**—Half-hardy perennials, grown as annuals; valuable for edging, as their yellow foliage makes a fine contrast with other bedding plants; 6 inches. **Pkt. 5c**

**Primula—Primrose**

The first two varieties named below are hardy, early-blooming, garden plants, and the others beautiful winter-blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a rich, loamy soil.

**POLYANTHUS** (Veris Mixed).—Early blooming, dwarf growing plants, valuable for outdoor bedding and edging; 8 inches, perennial. (See plants, page 74.)

**Mixed.** Pkt. 15c;  $\frac{1}{2}$ -oz. 50c

**VULGARIS** (Veris Aureo).—Yellow, common, English Primrose; hardy garden variety; perennial; 8 inches.

Pkt. 10c;  $\frac{1}{2}$ -oz. 35c

**Obconica Grandiflora Hybrids.**—A lovely, profuse bloomer, bearing beautiful clusters of single flowers; for pots only.

Pkt. 10c

**Obconica G. Gigantia.**—New giant, distinct, very beautiful.

Pkt. 25c

**Sinensis or Chinese Primrose.**—Beautiful, large, fringed flowers; especially fine for winter and spring flowers in the house; free bloomers.

**Finest Mixed.** Pkt. 25c

**Ricinus—Castor Oil Bean**

A magnificent and highly ornamental plant, with picturesque foliage and stately growth, combined with brilliant colored fruit of the giant varieties. Grown as single specimens on lawns and on pleasure grounds, they form a striking feature; hardy annuals.

**Zanzibarensis, Mixed.**—Very ornamental; dark bronzy green and red leaves; 8 to 10 feet high.

Pkt. 5c; oz. 20c

**Sanguineus Tricolor.**—Blood red stems, deep green leaves, with red veins; 6 feet.

Pkt. 5c; oz. 20c

**Gibsoni.**—New dark red foliage; 5 feet.

Pkt. 10c; oz. 25c

**Finest Mixed.**—All kinds. Pkt. 5c; oz. 15c

**RUDBECKIA—Cone Flower**

**Bicolor Superba.**—Fine free-flowering annual variety; 2 feet; producing in great abundance on long stems its bright yellow double flowers.

Pkt. 10c

**Fulgida.**—Hardy perennial sort, producing in masses during August and September brilliant orange-yellow flowers; 3 feet.

Pkt. 10c

**Newmanii.**—Perennial; large, bright orange-yellow flowers.

Pkt. 15c

**Salpiglossis**

Produces very showy, funnel-shaped flowers of large size; fine for beds; half-hardy annuals.

**Grandiflora Mixed.**—Large-flowering. Pkt. 10c

**Salvia—Scarlet Sage**

This popular bedding plant produces a blaze of brilliant scarlet flowers in the garden during the late summer and fall. Seed should be started in the house during March. Height 1½ to 3 feet.

**Splendens Compacta.**—A splendid semi-dwarf variety, with large spikes of rich scarlet flowers.

Pkt. 10c;  $\frac{1}{2}$ -oz. 50c

**Zurich.**—New dwarf, of special merit; fine flowers, and starts to bloom early.

Pkt. 20c;  $\frac{1}{2}$ -oz. 75c

**Fireball.**—The earliest semi-dwarf salvia; extremely floriferous.

Pkt. 10c;  $\frac{1}{2}$ -oz. 75c



**Ricinus (Castor Beans).**

**SCHIZANTHUS—Butterfly Flower**

Beautiful garden annuals; flowers charmingly fringed and delicately colored; 1 to 2 feet. Blooms quickly from seed.

**Grandiflora Mixed.** Pkt. 10c

**Stock—Gilliflower**

By far one of the most popular annuals for garden or greenhouse culture. They are superb for cutting, and are of great value to florists for bouquet work. Flowers are of delicious fragrance, large, double, and borne on handsome spikes.

**LARGE-FLOWERED TEN WEEKS.**—A splendid double-flowered strain, especially adapted for bedding and pot culture; pyramidal spikes of brilliantly colored flowers; 1 foot.

**Finest Mixed.** Pkt. 10c;  $\frac{1}{2}$ -oz. 50c

**GIANT PERFECTION, OR CUT-AND-COME AGAIN.**—Grown for us in Europe, where the greatest possible care is taken in the selection of good seed. Of branching habit, 1½ feet, and 85 to 90 per cent of large, double flowers; fine for cutting.

**White, Light Blue, Crimson, Dark Blue, Pink, Yellow, or Finest Mixed.** Pkt. 10c;  $\frac{1}{2}$ -oz. 60c

**BEAUTY OF NICE.**—A handsome, new winter stock of quick growth; flowers of large size; 2 feet.

**Mixed.** Pkt. 10c;  $\frac{1}{2}$ -oz. 60c

**Princess Alice.**—Double white. Pkt. 15c

**Queen Alexandra.**—Soft rosy lilac. Pkt. 15c

**Beauty of Nice.**—Delicate flesh pink.

Pkt. 15c

**SUNFLOWER.**—(See Helianthus, page 54.)

**Sweet William**

Hardy biennial, widely grown for the handsome, showy heads of brilliant flowers from June to September; 1½ feet.

**Double Finest Mixed.** Pkt. 10c

**Mammoth Single Mixed.** Pkt. 5c

**SCABIOSA—Morning Bride**

Elegant, hardy annual; fine for cutting and bedding; flowers quite large and very showy, blooming freely during summer and autumn; 2½ feet. All colors.

**Finest Mixed.** Pkt. 5c; ¼-oz. 25c  
**White.**—Large flowers. Pkt. 5c; ¼-oz. 25c

**SHAMROCK—True Irish**

This is the genuine Shamrock, and is gathered by a connoisseur on the native land. Pkt. 25c

**SNAPDRAGON.**—(See *Antirrhinum*, pg. 46.)

**SIMLAX**

One of the most graceful climbers for greenhouse or conservatory. Pkt. 10c

**THUNBERGIA**

Extremely pretty yellow flowers with dark eye; rapid-growing annual trailers; used largely for vases, window boxes, etc; will flower all summer till frost; 5 feet. Finest Mixed. Pkt. 5c; ¼-oz. 30c

**TRITOMA—Red Hot Poker**

Striking and exceedingly ornamental autumn flowering plant. Showy flower spikes, shaded red and yellow; 2 feet. (See cut and plants, page 75.) Pkt. 10c

**VALERIANA—Garden Heliotrope**

A fine old-fashioned hardy plant; flowers have a strong heliotrope odor; showy, red or white; fine for bouquets; 2 feet.

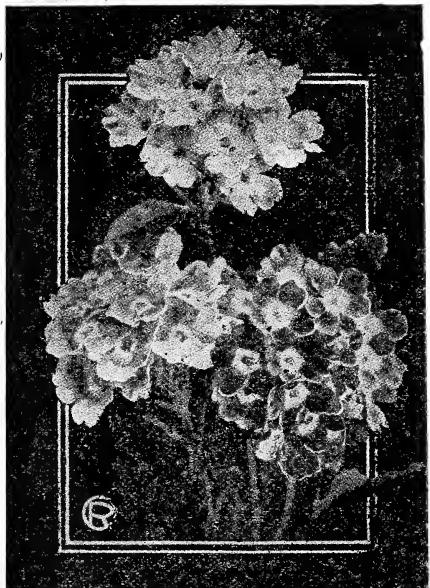
**Mixed.** Pkt. 5c

**Verbena**

One of the finest annual bedding plants and also suitable for borders, baskets and window boxes; its heads of brilliant-colored flowers produce one mass of bloom throughout the summer. (See cut.)

**NEW GIANT.**—The most beautiful and remarkable variety yet introduced.

**Hybrida Mixed.** Pkt. 20c



Verbena.

**MAMMOTH.**—A carefully selected and improved strain. The trusses and individual flowers are of the largest size, of brilliant colors; free blooming and of vigorous habit.

**White, Scarlet, Rose, Purple, Striped or Mammoth Mixed.** Pkt. 10c; ¼-oz. 50c

**Fine Mixed.**—A choice mixture. Pkt. 5c; ¼-oz. 25c

**Violet**

*Viola Odorata* is the well-known English Violet, a free-flowering, hardy perennial; easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded, moist places.

**Odorata.**—Blue or White. Pkt. 15c

**WALLFLOWER**

Very highly prized, old-fashioned plants, grown largely for their fragrance; half-hardy perennial varieties; 1½ feet.

**Single Finest Mixed.** Pkt. 5c

**Double Tall Branching, Finest Mixed.**—Fragrant; 3 feet. Pkt. 10c

**WILD CUCUMBER.**—(See *Echinocystis*, page 53.)

**Zinnia—Youth and Old Age**

The plants come quickly from seed and make a fine display in a bed or border. Each flower lasts for several weeks, and the plants bloom abundantly until destroyed by frost; 1½ and 2 feet; annual.

**ROBUSTA GRANDIFLORA.**—A very choice selection of the largest showy varieties.

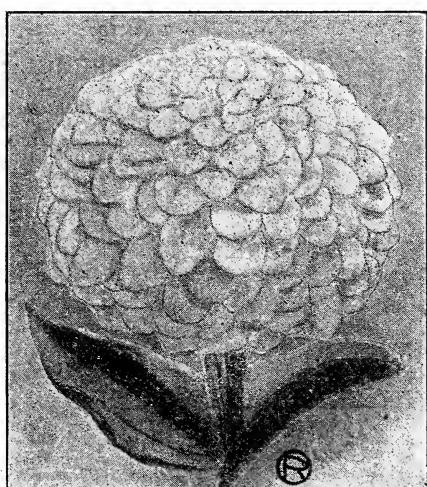
**Double Mixed.** Pkt. 10c; ¼-oz. 40c

**MAMMOTH.**—White, Golden, Yellow, Scarlet or Flesh; 3 feet. Pkt. 15c; ¼-oz. 50c

**Tall Giant, Double Mixed.**—Elegant strain, comprising all colors; 3 feet.

**Pkt. 5c; ¼-oz. 25c**

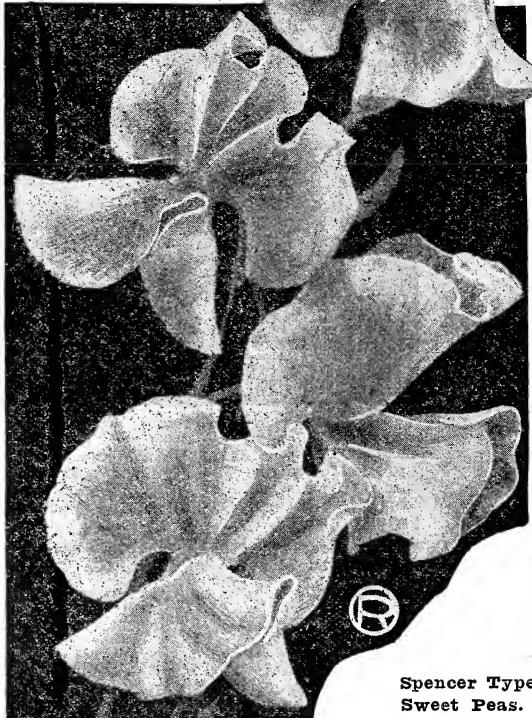
**Dwarf Double Mixed.** Pkt. 5c; ¼-oz. 25c



Zinnia.

## "Up to-Date" SWEET PEAS of "Highest Quality"

Treat your Sweet Peas with **NITRO-GERM**, makes stronger vines, more and larger flowers. (See page 36.)



Spencer Type  
Sweet Peas.

### KING WHITE

Well and truly named, it certainly is "the king" of all white sweet peas. In color, size and style of flower, length of stem and vigor, King White is unsurpassed.

Pkt. 15c;  $\frac{1}{2}$  oz. 40c

### MARGARET ATLEE

This charming novelty is the largest and finest pink yet introduced. The giant flowers are rich, rosy salmon pink on creamy buff, a new shade of pink, immense wavy standards and wings inclined to double.

Pkt. 15c;  $\frac{1}{2}$  oz. 35c

### ROYAL PURPLE

Introduced last year and made good. A true rich, royal purple that holds its color. Flowers of giant size and elegant form, very beautiful mixed with white.

Pkt. 15c;  $\frac{1}{2}$  oz. 50c

### EDGEWOOD

Flowers bright silvery blue in color and of fine large full wavy form, some duplex. Might be called a pure lavender, and will surely become very popular.

Pkt. 15c;  $\frac{1}{2}$  oz. 35c

**QUALITY and TRUENESS** is what makes the price in Sweet Peas. Low prices never brought "HIGHEST QUALITY" Seeds. Use Nitro-Germ, see page 36.

No Seed Company in the world offers better sweet pea seed than we. By field trials of the improved varieties from American and European growers we are enabled to select the best under each color for our customers.

This year we have "new novelties" to offer of **special merit**. We have discarded the "Unwin" class and many "Spencers" and Grandiflora types, and we offer you only the **Cream of all Sweet Peas**. The Best by Test.

### 1916 Prize Collection

#### LATEST AND BEST

#### Novelties

#### OF GIANT SIZE

The following varieties are of **REAL MERIT** that have won prizes at the American or National Sweet Pea Shows.

**Special**—One packet each (9 kinds), value \$1.40, only \$1.00.

#### THE PRESIDENT—1916 Novelty

Flowers of beautiful wavy form on long stems usually carrying four giant blooms of a rich glowing scarlet—claimed to be the brightest color to date and does not burn. Equal to if not larger and better than "Fiery Cross."

Pkts. only (10 Seeds) 25c

#### ILLUMINATOR

Very distinct and pronounced "the most glorious color ever seen"—rich glowing cerise-salmon, suffused bright orange, rich and glistening, large, perfect flowers in profusion on long stems.

Pkt. 15c;  $\frac{1}{2}$ -oz. 50c

#### JESSIE CUTHBERTSON SPENCER

A good striped variety is desirable in every collection—this attractive and beautifully formed, large, vigorous flower is a rich cream overlaid with stripes and marblings of bright rose-pink. Both standard and wings are colored alike and the whole effect is bold and pretty.

Pkt. 15c;  $\frac{1}{2}$ -oz. 35c

#### GEORGE STARK

Awarded 5 prizes. Giant flowers of perfect form, waved and fluted. The wings are of the same intense bright pure scarlet as the standard, making a uniform self-color throughout and absolutely sunproof.

Pkt. 10c; Oz. 35c

#### MRS. CUTHBERTSON

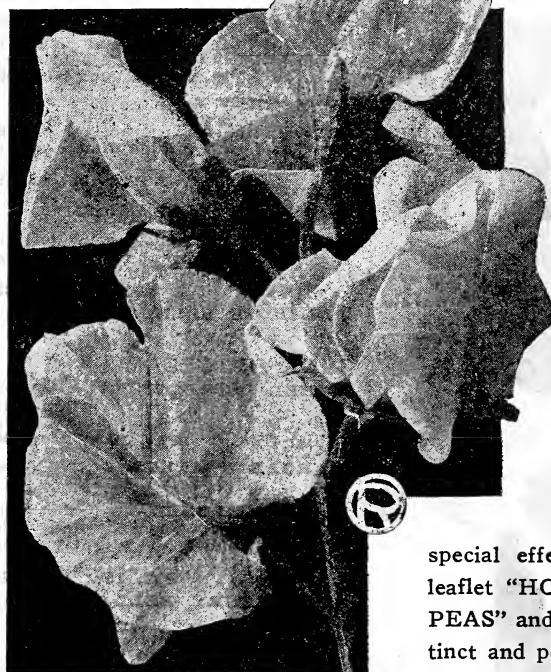
An exquisitely beautiful bi-color of gigantic size and advanced Spencer type. The standard is a clear rose-pink, wings white, slightly flushed light rose. Flowers invariably produced four on a stem of great length. Extremely vigorous and free flowering.

Pkt. 15c;  $\frac{1}{2}$  oz. 25c

## Sweet Peas of Highest Quality

Some others may have as good, but none any finer Sweet Pea Seed than we. The new orchid-flowered or **Spencer types** are the latest, and well worth the higher price asked. Those who have tried the true "new Spencers" will never be satisfied again with the old types.

Use **NITRO-GERM** for  
Sweet Peas, 25c and 50c  
sizes. (See page 36.)



### Our Special 1916

#### Collection of Giant Spencers

75c Worth for 50c

We have put up, in one large, beautifully lithographed envelope, seven distinct and new GIANT "SPENCERS;" each kind in a separate packet and properly marked. The seed in each packet will plant a row 3 to 4 feet or a total of 20 to 30 feet. With good care and cultivation these will produce **T H O U S A N D S O F BLOOMS** which you can pick in separate shades; an ideal way for special effect. This collection contains our leaflet "HOW TO GROW PRIZE SWEET PEAS" and one full-sized packet of the 7 distinct and popular colors as described below—

**ADD 15c EXTRA OR 65c in all and we will include a 25c packet (1 oz.) of R. R. SUPERB SPENCER MIXTURE. (Described below.)**

**WHITE SPENCER**—A pure white, of enormous size and splendid substance; long, strong stems; very popular.

Pkt. 10c; oz. 25c

**MRS. HENRY BELL**—Giant flowers of finest form. A most charming rich pink on cream. Magnificent in every respect.

Pkt. 10c; oz. 35c

**HELEN LEWIS SPENCER**—Very popular with florists and large growers. A profuse bloomer. Flowers large, nicely waved and of an intense rich crimson-orange or salmon pink.

Pkt. 10c; oz. 25c

**PRIMROSE SPENCER**—A pronounced primrose or creamy white; excellent flower.

Pkt. 10c; oz. 25c

**ASTA OHN SPENCER**—Color a beautiful lavender; flowers large, wavy and generally come four blossoms to the stem. We offer a very select strain.

Pkt. 10c; oz. 35c

**MAUD HOLMES**—An English introduction and superior to others in this color. Elegant form and type and a beautiful crimson scarlet, giant, wavy flowers, four to a stem.

Pkt. 15c; oz. 40c

**MRS. A. IRELAND**—The form is most beautiful; petals waved and crinkled; distinct serrations on edges of standard. The extra large, long-stemmed flowers are most attractive; the best rosy pink.

Pkt. 10c; oz. 25c

**SPECIAL**      1 oz. each of the above 7 kinds only \$1.50.    1 packet, each 50c.      **SPECIAL**

#### R. R.'s Superb Giant Spencer Mixture of Sweet Peas

This is our own special mixture and is composed only of the best giant orchid-flowered wavy Spencer types, also contains some new seedlings that have not as yet been named. For healthy, robust growth, wealth of blooms, size of flowers and exquisite and rare colorings, this mixture is unequalled.

Put up and for sale in sealed packages only,  $\frac{1}{2}$ -oz. pkts., 15c; oz. pkts., 25c each; 3 for 60c; 6 for \$1.00.

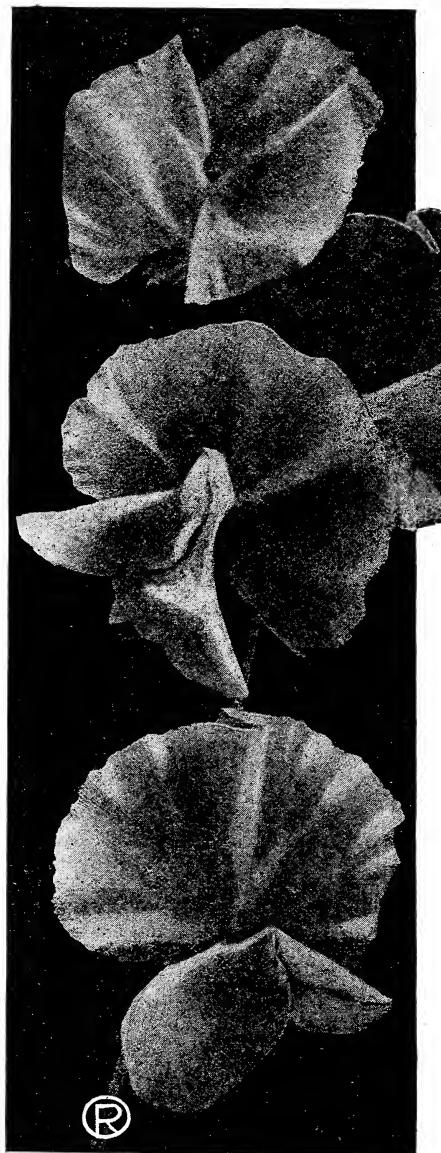
**PRIZE SWEET PEAS**—If you want to grow giant flowers on long stems, you must give your sweet peas good soil, plenty of water at the roots in dry weather, some Wonder Fertilizer and pick the flowers often. Our "leaflet" tells all—free with each order.

## Up-to-Date Spencer Sweet Peas of Real Merit—Continued

No seed house offers a more select list. We classify under colors for your convenience.

**SPECIAL**—Make up your own collections, 65c worth for 50c; \$1.35 for \$1.00.

Don't grow your Sweet Pea Vines too close together, after the plants are 4 inches high, thin to 4 to 6 inches apart.



**MRS. ROUTZAHN.**—A lovely combination of apricot and pink. Beautiful, large wavy flowers. Praised by all who have grown it.

Pkt. 10c; oz. 35c

### WHITE

**ETA DYKE.**—The largest and most exquisitely formed pure white Spencer according to N. S. P. S. Beautifully waved; color absolutely pure. Pkt. 10c; oz. 40c

**KING WHITE.**—(See "Novelties," page 62.)

**NORA UNWIN.**—Pure white and large in size; exquisitely crinkled, wavy petals.

Pkt. 5c; oz. 20c; 4 oz. 50c

**WHITE SPENCER.**—(See page 63.)

**ZENOPHON.**—Distinct and attractive. Large flowers, full and wavy, some double standard. Color white, edged lavender.

Pkt. 10c; oz. 35c

### YELLOW-PRIMROSE

**CLARA CURTIS.**—The best light yellow in color and size. Placed at the head of the list by N. S. P. S. Pkt. 10c; oz. 35c

**PRIMROSE SPENCER.**—(See Collection, page 63.)

### PINK ON CREAM

**ETHEL ROOSEVELT.**—A soft, pleasing primrose, overlaid with dainty bright pink; very large and fine. Pkt. 10c; ½-oz. 20c

**MARGARET ATLEE.**—(See Novelties," page 62.)

**MAY CAMPBELL.**—A most distinct sweet pea; ground color cream, shaded and slightly veined light pink.

Pkt. 15c; ½-oz. 25c

**MRS. HENRY BELL.**—(See page 63.)

**Mrs. A. Ireland.**—(See page 63.)

**MRS. W. C. BREADMORE.**—An English introduction of exquisite beauty. Buff ground, beautifully shaded with pink; large.

Pkt. 10c; oz. 35c

### PINK

**COUNTESS SPENCER.**—Improved strain. Flowers extremely large, beautifully expanded, crumpled and waved. Color soft shell pink, deeper at the outer edges. True pure seed.

Pkt. 10c; oz. 35c

**CONSTANCE OLLIVE.**—A refined variety of great beauty and form; rich, rosy delicate salmon pink; charmingly waved and crimped. The large, beautiful flowers, usually in fours are well placed on long, strong stems.

Pkt. 10c; oz. 35c

**ELFRIDA PEARSON.**—A magnificent and a very large pale pink flower, of a lovely shade. A vigorous grower, producing plenty of fours. This pea should be grown by every exhibitor.

Pkt. 15c; ½-oz. 25c; oz. 40c

**MARTHA WASHINGTON.**—A beautiful large, wavy flower, almost pure white, edged carmine rose, very dainty and effective.

Pkt. 10c; ½-oz. 35c

**MRS. HUGH DICKSON.**—The best light pink to date. A European novelty of sterling merit. You will be delighted with this.

Pkt. 10c; oz. 35c

USE WONDER ODORLESS FERTILIZER TO MAKE MORE AND LARGER FLOWERS AND VEGETABLES. SEE PAGE 34.

## Up-to-Date Spencer Sweet Peas of Real Merit—Continued

No seed house offers a more select list. We classify under colors for your convenience.  
**SPECIAL**—Make up your own collections, 65c worth for 50c; \$1.35 for \$1.00.

### ORANGE OR SALMON

**NOTE**—To get the most delicate shade in this color, flowers should be lightly shaded.

**BARBARA**—Salmon-colored self of large size. It makes a "telling" bunch either for exhibition or table decoration, and is most effective.

Pkt. 15c; ½-oz. 40c

**DECORATOR**—1913—The color is old rose with a sheen of terra-cotta giving a bright orange effect. The placement and poise of the flower is perfect. When exhibited, this variety never fails to attract attention.

Pkt. 15c; ½-oz. 25c

**EDDIE BEAUTY**—This grand variety is a fine orange-salmon colored flower. It is an excellent grower, producing fours in abundance.

Pkt. 10c; oz. 35c

**HELEN LEWIS SPENCER**.—(See page 63.)

**ILLUMINATOR**.—(See Novelties, page 62.)

**THOS. STEPHENSON**—Recognized by the N. S. P. S. as the best and most brilliant orange. Flowers are very beautiful, extra large, and come 3 and 4 to the stem.

Pkt. 10c; oz. 40c

### LAVENDER

**MASTERPIECE**—A very fine lavender, absolutely true and fixed. On account of its reliability and true, pure color, we believe it is one of the best lavenders, although not as large as some.

Pkt. 10c; oz. 35c

**ASTA OHN SPENCER**.—(See page 63.)

**CHARLES FOSTER**—The color is a peculiar combination of mauve and pink; very distinct.

Pkt. 15c; ½-oz. 35c

**FLORENCE NIGHTINGALE**—Giant flowers on long stems; bluish lavender.

Pkt. 10c; oz. 30c

**FLORA NORTON SPENCER**—A beautiful shade of light blue or lavender; very desirable.

Pkt. 10c; oz. 35c

**WEDGEWOOD**.—(See "Novelties," page 62.)

### SCARLET—CRIMSON

**GEORGE STARK**.—(See "Novelties," pg. 62.)

**KING EDWARD SPENCER**—Of vigorous growth, profuse bloomer, giant flowers; most popular scarlet; long stems.

Pkt. 10c; oz. 35c

**MARIE CORELLI**—Rosy carmine, tinted cherry red; beautifully waved. Award of merit; very distinct.

Pkt. 15c; ½-oz. 25c; oz. 40c

**THE PRESIDENT**.—(See "Novelties," pg 62.)

**MAUD HOLMES**.—(See Novelties, page 62.)

**VERMILLION BRILLIANT**—Flowers not very large but the most "brilliant scarlet" sweet pea to date.

Pkt. 10c; oz. 35c

### Popular and Best Grandiflora Sweet Peas

Aside from the preceding varieties, these are the "cream" of over 100 named varieties. Your selection, pkt. 5c; 6 pkts. for 25c; oz. 10c; 6 1-oz. pkts. 50c; ¼-lb. 30c; lb. \$1.00.

**Dorothy Eckford**.—A good white of the largest and best grandiflora type. A free bloomer.

**Mrs. Collier**.—A rich primrose tint, entirely free from any trace of pink.

**Lovely**.—Beautiful shades of soft shell pink, changing to very light rose at the outer edges.

**King Edward VII**.—Large flowers of open form, bright crimson-scarlet. Long stems; fine flowers.

### ROSE CITY MIXTURE OF GRANDIFLORA

Extraordinary care has been taken in the selection of the varieties and the quantities of each to make up the mixture, and the result is one that cannot fail to excite the admiration of even the most critical.

Large pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

### DARK RED—CLARET

**ARTHUR GREEN**—Magnificent, of largest size and distinct shade. The general color effect is that of dark claret.

Pkt. 15c; ½-oz. 25c

**OTHELLO SPENCER**.—The stems are strong and long, with three or four fine, very large blooms of a rich deep maroon.

Pkt. 10c; oz. 25c

### BLUE—PURPLE

**CAPTAIN OF THE BLUES, SPENCER**.—Clear purple, blue; a bright striking color.

Pkt. 10c; oz. 25c

**MRS. G. CHARLES**—A new shade of deep blue, large wavy flowers of excellent form.

Pkt. 15c; ½-oz. 25c

**ROSIE ADAMS**—New, peacock blue, a color that has long been wanted; try it.

Pkt. 10c; oz. 35c

**ROYAL PURPLE**.—(See "Novelties," page

### STRIPED—SHADED

**JESSIE CUTHERBERTSON, SPENCER**—(See "Novelties," page 62.)

**RAMONA SPENCER**—Very attractive, clear white, with soft, delicate lines and flakes of blush pink.

Pkt. 10c; oz. 25c

**SENATOR SPENCER**—Claret and chocolate stripe, on light ground, large and most distinct, much admired; a profuse bloomer.

Pkt. 10c; oz. 35c

**MRS. WILCOX**—Bright and attractive; white, striped bright red; very pretty.

Pkt. 10c; oz. 25c

**MRS. CUTHERBERTSON**—(See "Novelties," page 62.)

### Winter Flowering (Forcing)

For florists' use for forcing in greenhouses for winter flowers. All leading colors in named varieties at 20c oz.; 4 oz. 50c.

### Double Mixed

These generally bloom about 50 per cent double flowers.

Pkt. 10c; oz. 20c

### Cupid Sweet Peas

Compact dwarf plants, not over six or seven inches high. Flowers of good size and substance. For edgings, low beds and pot culture they are unique and pretty.

Mixed, Pkt. 5c; oz. 15c; ¼ lb. 40c; lb. \$1.25

As aside from the preceding varieties, these are the "cream" of over 100 named varieties. Your selection, pkt. 5c; 6 pkts. for 25c; oz. 10c; 6 1-oz. pkts. 50c; ¼-lb. 30c; lb. \$1.00.

**Dorothy Eckford**.—A good white of the largest and best grandiflora type. A free bloomer.

**Mrs. Collier**.—A rich primrose tint, entirely free from any trace of pink.

**Lovely**.—Beautiful shades of soft shell pink, changing to very light rose at the outer edges.

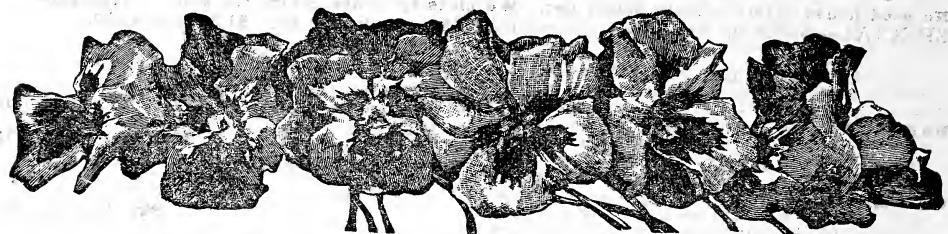
**King Edward VII**.—Large flowers of open form, bright crimson-scarlet. Long stems; fine flowers.

Extraordinary care has been taken in the selection of the varieties and the quantities of each to make up the mixture, and the result is one that cannot fail to excite the admiration of even the most critical.

Large pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c

**Free**—Our pamphlet, "How to Grow Prize Sweet Peas"—free with any order if asked for.

## Annual Flowering Plants.



For Beds, Borders, Baskets, Boxes or Vases.

**READ THIS**—During April, May and June we have thousands of flowering and ornamental annual plants, practically every variety from "A to Z" we list under flower seeds.

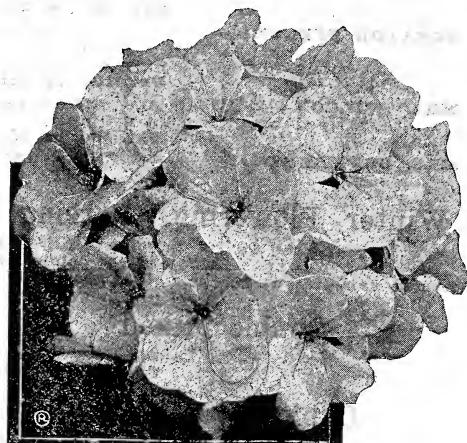
No order too large or too small. Write for price list if interested. For a small amount we can make up a nice nice assortment for a flower bed, window or porch boxes, hanging baskets or garden vases. The young plants can be sent by parcel post. Large stock from pots by express.

### Beautiful Single Geraniums

**Price 10c each; set of 12 varieties, \$1.00 postpaid.**

**Bellerophon**—One of the freest blooming single scarlet bedding varieties; rich, glowing scarlet, crimson maroon shading on upper petals.

**James Kelway**—A most beautiful crimson scarlet, of fine size and satiny texture.



Single Geranium.

### Grand Double Geraniums

**Price, 10c each; set of 12 varieties, \$1.00 postpaid.**

**Beaute Poitevine**—Very large, semi-double flowers of a brilliant salmon color.

**Contraste**—Glowing carmine shaded to velvety scarlet. One of the best bedding sorts.

**Francois Magnard**—Fine, bright magenta shade, flowering very freely.

**Francis Perkins**—The grandest bright pink bedding variety to date, exquisite.

**Golden Dawn**—Rich orange scarlet, the nearest approach to yellow in geraniums.

**Heteranthus**—A fine bedding variety, color bright vermillion red of a most pleasing shade. Trusses very large.

*Lotus, Idaho, Jan. 24, 1915.*

Routledge Seed & Floral Co.

Gentlemen: We received seeds and plants last spring and they were certainly fine. My plants are doing finer than I really expected them to.

Yours,  
MRS. ED MCCLURE.

*Grass Valley, Ore., May 18, 1915.*

Routledge Seed & Floral Co.

Gentlemen: Received my order of Geraniums a few weeks ago and was well pleased with them all. They are doing just splendidly.

Yours truly,

RELLA OLDS,

### Lady Washington Geraniums or English Show Pelargoniums

These are commonly known as Lady Washington Geraniums. Like geraniums they flower during the summer months and are very ornamental either as house or bedding plants.

**Price, 20 cents each; set of 6 sorts, \$1.00**

**Countess**—Very large flowers of a distinct shade of cerise salmon color; upper petals splashed with maroon.

**Crimson King**—Superb dark colored variety. Flowers rich crimson, blotched and feathered maroon. Very free flowering and easy growing.

**Easter Greeting**—A new free blooming variety of the greatest merit. Flowers amaranthe red with a well outlined maroon blotch on each petal. Blooms very large and in good sized trusses.

**Mabel**—Delicate light pink, upper petals feathered and blotched maroon. Elegantly fringed flowers of great substance.

**Madame Vibert**—Of very sturdy growth, bushy habit and free blooming. Flowers bright red, blotched black and maroon and edged with light pink and white. One of the most admired.

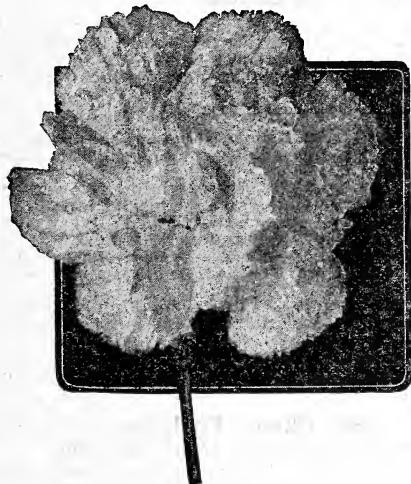
**Vivid**—Flowers very large and full with crisp, waxy petals. Color rich crimson of great brilliancy.

### Ever-Blooming Carnations.

For beauty, fragrance and abundance of flowers, for its hardiness, easy culture and adaptability to outdoor or indoor cultivation, no plant excels the ever-blooming Carnation, or, as so frequently called, the Pink; rivaling the Rose in beauty of colors and shades, equaling in perfume and even excelling it in profusion of flowers.

### St. Nicholas Collection Giant Carnations

**Price, 20c each; set of 8 sorts, \$1.25 postpaid.**



**Bonora**—A delightful fancy carnation; color, white, lightly splashed with scarlet, very distinct.

**Herald**—Flowers large, with finely fringed petals. Strong stems holding the flower erect. Color, rich dazzling scarlet. A true ever-bloomer.

**Gorgeous**—A giant among Carnations. Flowers finely fringed, of elegant form with high center. Color, rich ruby-carmine shaded to velvety scarlet.

**Matchless**—A wonderful new white. Large massive flowers on strong upright stems. Sweetly perfumed.

**Philadelphia**—Very free flowering. Flowers very large. Color, soft medium rose-pink, of a delicate and pretty shade.

**Pink Delight**—Flowers large, round and full; color a delicate flesh pink, with a very strong clove fragrance; has excellent keeping qualities.

**Pocahontas**—The largest and best of its color, a bright dazzling crimson. Always in bloom.

**Yellowstone**—Vigorous growing, free flowering. Color canary yellow, lightly splashed with pink. A gem among fancy carnations.

### Victory Collection Everblooming Carnations

**Price, 15c each; 12 for \$1.25 postpaid.**

**Afterglow**—Superb; brilliant dark pink.

**Beacon**—A brilliant, deep scarlet.

**Enchantress**—A superb flesh pink.

**Eldorado**—Yellow, nicely streaked crimson.

**Dorothy Gordon**—Rose pink; fragrant.

**Lady Bountiful**—Pearly white; fringed.

**May Day**—Soft pink with silvery sheen.

**Mrs. C. W. Ward**—Bright, glistening pink.

**President Roosevelt**—Bright, rich crimson.

**Victory**—Best intense scarlet.

**White Enchantress**—A beautiful white.

**Windsor**—The handsomest of all pinks.

### Beautiful Flowering Begonias

**10c each, full collection of 6 50c postpaid.**

Probably the most satisfactory class of plants for house culture obtainable. Of easiest possible culture, their waxy flowers produced in much profusion together with their handsome foliage make them most desirable subjects for the window garden.

**Alba Picta**—A strong grower, pointed dark green leaves, profusely covered with pure white spots. Racemes of white flowers.

**Argentea Guttata**—Handsome erect growing sort, with pointed wine-colored leaves with silvery white spots. Pure white flowers.

**Cuprea**—A fine, erect Begonia, with dark, rough leaves; the panicles of unopened flowers are bright red, with surface like plush.

**Foliosa**—The freest-flowering Begonia we have; glossy green leaves and bright pink flowers.

**Marguerite**—Bronzy green, with purple cast; large trusses of cream and rose-colored flowers.

**Marjorie Daw**—A strong growing variety of slender habit with glossy green foliage and producing large racemes of salmon pink flowers, drooping gracefully about the plant.

### Oriental Collection Japanese Chrysanthemums

Price, 15c each; sets of 10 sorts, \$1.00 postpaid.

**Artistic Queen**—Fine exhibition variety. Extra large blooms, loosely incurved, very strong stem. Color, rose-pink, very fresh and beautiful.

**Ethel Fitzroy**—Extremely beautiful color, rosy, golden bronze; with nice big, incurved blooms.

**George Buzzard**—A beautifully shaped bloom; bronzy red in color with reverse side of petals old gold.

**General Hutton**—Large in size, perfect in form and a superb golden yellow in color.

**Harvard**—Produces a good medium sized bloom of the darkest shade of crimson.

**Naomah**—Incurved white. Petals broad and incurving. Flowers of excellent substance.

**Pink Gem**—A beautiful broad-petaled, incurving variety, round and ruffled; one of the prettiest forms.

**Ramapo**—An excellent variety. The heavy golden yellow, richly colored.

**Thomas Carrington**—An enormous exhibition variety with perfectly double flowers. Petals rather narrow and gracefully incurved. Color, rosy purple.

**William Turner**—Pure white in color. It is enormous in diameter, deep in build and very perfect in form.



"Incurved" Chrysanthemum Flower.

### New English Garden Chrysanthemums

To those persons who have planted the late flowering sorts and failed to get them into bloom before frost, these new imported sorts will appeal. All will flower readily in the garden during September and October, and while the flowers will not be as large as the late sorts their freedom of bloom will make up for anything that may be lacking in that respect.

Price, 15c each; full collection of 10 sorts, \$1.25.

**Carrie**—Bright golden yellow flowers in great profusion during September. Dwarf habit.

**Cranford Pink**—Lovely silvery pink flowers of fine size, nicely incurved and very lasting. Fine for cut flowers.

**Countess of Carlisle**—A very free flowering sort or dwarf habit. Color, terra cotta and bronze. Rich and handsome.

**Glory of Seven Oaks**—Deep golden yellow, very free flowering. Excellent dwarf habit.

**Groachers Crimson**—Large handsome flowers of a rich shade of crimson. Blooms very early.

**Leslie**—Light canary yellow. Covered with its pretty flowers early in the fall.

**Mignon**—Rosy pink, shaded silvery. Strong vigorous grower and very free.

**Nina Blick**—Rich golden bronze shaded to yellow. Dwarf spreading habit and free flowering.

**Normandie**—Delicate shell pink flowers of wax-like texture. Fine for cut flowers. One of the best of this type.

**Queen of Whites**—Snowy white flowers cover the plant early in the fall. A gem in the garden.

### Six Choice Fuchsias

Price, 10c each; set of six sorts, 50c.

Beautiful, graceful, free flowering, easily grown, plants for window, porch or yard decoration.

**Annie Earle**—Tube and sepals waxy white, corolla single, clear carmine; plant splendid and free blooming.

**Dr. Brooks**—Rich, dark blue corolla, with crimson sepals. A beautiful single variety, never out of bloom.

**General Roberts**—Flowers very large, corolla plum color, tube and sepals crimson; one of the finest double varieties.

**Little Beauty**—A dwarf growing double variety, producing with great freedom small flowers of great beauty. Purple corolla with scarlet sepals. A little gem.

**Molesworth**—Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white.

**Sylvia**—Calyx scarlet. Corolla giant in size and pure white in color. Beautifully formed single flowers.

### Rex Begonias

Grown for the beauty of the foliage. The leaves are large, variegated and margined with a peculiar silver-metallic gloss. The most ornamental of window plants; also useful in vases and baskets.

20c each; 3 sorts for 50c

**OTHER ANNUAL PLANTS**—Read notice below the pansy cut top of page 66—we have all popular annual plants.



## BEAUTIFUL FERNS

A home, no matter how lavishly furnished, is not complete without decorative plants and palms.

The bold, majestic palms and delicate, feathery foliage of the ferns lend a grandeur and magnificence that cannot be obtained in any other way.

**OSTRICH PLUME** (See cut)—The fronds of this popular variety are the most delicate and plume-like. They are beautiful, full and fluffy, well-grown plants; are truly magnificent and last well in the house. Choice plants, 20c to 35c, post paid; specimen plants in pots, \$1.00 to \$2.00; extra large, \$2.50 to \$3.50.

**BOSTON FERN**—One of the most beautiful and useful of house plants. It is of easy culture, and its sword-like fronds, in large specimens, attain a length of 3 to 4 feet, produced in a bewildering mass, arching, curving and interlacing in every conceivable direction.

Choice plants, 20c to 35c, post paid; specimen plants in pots, 75c to \$1.00; \$1.50 and up to \$2.50.

**ASPARAGUS SPRENGERI** (Emerald Feather) (See cut No. 1)—This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green, feathery foliage; quite hardy and valuable for hanging baskets or porch boxes in summer if given partial shade and plenty of water.

Choice plants, 20c to 30c, postpaid; specimen plants in pots, 35c to 75c; extra large pots or baskets, \$1.50 to \$2.50.

**ASPARAGUS PLUMOSUS** (Chimbing Lace Fern) (See cut No. 3)—A finer and more delicate plant than the Sprenger, but hardy and easily grown. Very satisfactory for window and house culture. An extremely graceful window climber, bright green, feathery foliage, as fine as the finest silk or lace.

Choice plants, 20c to 30c, postpaid; specimen plants in pots, 35c to 75c.

**MAIDEN HAIR FERN** (*Adiantum Cuneatum*)—A very beautiful and graceful fern. Small plants, 20c, postpaid; choice plants in pots, 35c and \$1.00 each.



Ostrich Plume Fern

### Filled Fern Dishes

These are pretty, popular, fashionable and very desirable for center pieces for the tea or dinner table or as ornamental plants on the sideboard or center tables.

A choice collection of plants in pretty matt green dishes, \$1.50 to \$2.00. In fancy dishes \$2.00 to \$3.50. (See cut No. 2.)

**NOTE.**—Must go by express; cannot be mailed.

### Beautiful Small Ferns

These handsome little ferns are used mostly in filling fern dishes, your choice of the following 20c each; 3 for 50c, postpaid.

**Aspidium Tsussimense.**—Without question the most valuable of all ferns yet introduced for fern dishes; of strong but dwarf and graceful habit.

**Crytomium Falcatum** (The Holly-Leaved Fern.)—One of the most desirable, very hardy and pretty.

**Pteris Argyrea** (Silver Fern)—A very showy fern, with variegated foliage.

**Pteris Wilsoni.**—A very pretty and useful fern; green leaves with the ends very peculiarly crested; beautiful sort for fern dishes.



No. 1, Asparagus Sprengeri. No. 2, Filled Fern Dish. No. 3, Asparagus Plumosus.

**Spectmen Plants.**—These are large, choice, well-shaped plants, growing in pots and are very beautiful. They cannot be mailed. We wrap and pack carefully and ship by express. Read what we do about prepaying charges—inside front cover.

## PALMS AND DECORATIVE POT PLANTS

Every one knows how beautiful palms and decorative plants are, and how much they improve the parlor, hall or dining room. We offer here only the best and most desirable kinds of the easiest culture, but we can supply rare tender specimens if wanted.

Note.—Potted plants cannot be mailed. Read note, bottom page 69.

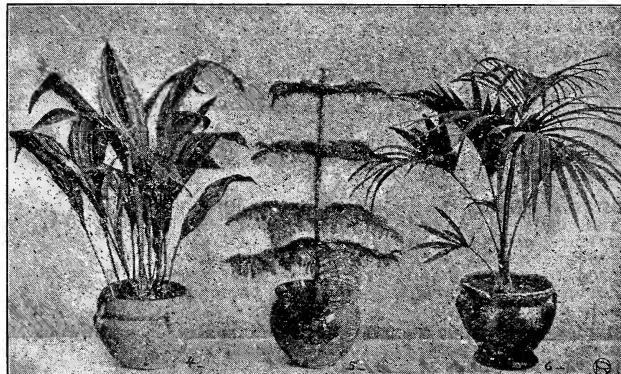
### ARAUCARIA EXCELSIA

(Norfolk Island Pine)—

This beautiful plant resembles the pine somewhat in appearance, though much finer in texture; it is particularly adapted to parlor table decoration. It is most unique in appearance, the branches being arranged in neat, symmetrical whorls.

They do not require much sun, and are hardy and easily cared for.

(See cut No. 5.) Choice plants in pots, 10 to 12 in., \$1.00 to \$1.50; 15 to 18 in., \$2.00; 18 to 24 in., and up, \$2.50 to \$4.00.



No. 4, Aspidistra. 5, Araucaria Excelsior. 6, Kentia Palm.

**KENTIA** (See cut No. 6)—A beautiful, graceful, handsome-looking, strong-growing palm, with deep green, crisp foliage; inclined to dwarf and spreading habit. One of the most popular for house culture, as they are very hardy, and stand the dry atmosphere. If we could have but one palm, it would be a Kentia. (See cut.) Small plants, 12 to 15 in., 75c to \$1.00, postpaid. Choice plants in pots, 18 to 24 in., \$1.50 to \$2.00; specimen plants, \$5.00 to \$25.00.

**ASPIDISTRA** (See cut No. 4)—Stately decorative house plant of rapid and hardy growth. The leaves grow quickly from the ground to a height of 18 inches or more. Will stand more gas, dust, cold or heat than any other palm we know of. We have both green and variegated green and white.

**Green or Variegated Leaves, fine specimens, in pots, \$1.50 to \$3.00 and up.**

**PHOENIX ROEBELENI** (See cut No. 7)—A new palm. One of the most graceful and the hardest. The horticultural world has enthused over this beautiful palm. It has

the grace and lightness of *Cocos Weddelliana*, but is more robust in growth and has ten-fold the foliage of that fine variety. Foliage from the ground up, gracefully recurved and spreading in habit. It will be most popular for house decoration. Choice plants in pots, \$1.00 to \$2.00; specimens, \$2.50 to \$4.00.

**RUBBER PLANT (*Ficus Elastica*)** (See cut No. 8)—This is certainly one of the best plants grown for decorative purposes. It succeeds well with ordinary treatment. Its glossy, thick, dark-green leaves are not effected by dust or gas.

**Choice plants in pots, 12 to 18 in., 75c to \$1.00; 18 to 24 in., \$2.00 to \$2.50.**

**DRACAENA INDIVISA (Fountain Plant)**—This plant is unsurpassed for hardiness. Leaves graceful, long, narrow and pointed, used extensively for centers in pots, boxes or urns with other plants. Perfectly hardy outside in summer.

**Nice plants, 12 to 15 in., 35c to 50c, postpaid; 18 to 24 in., in pots, \$1.00 to \$1.50.**

### COCOS WEDDELLIANA

(See cut No. 9)—The most elegant and graceful of all the smaller palms. Its slender, erect stem is freely furnished with its graceful arching leaves of rich green color. Small plants are very desirable for centers in fern dishes.

**Choice plants, 12 in., 50c to 75c, postpaid; 15 to 18 in., in pots, \$1.50 to \$2.00. Specimens, \$3.50 to \$5.00.**



No. 7, Phoenix. 8, Rubber Plant. 9, Cocos Palm.

Jardinieres, Pots, Japan Tubs, Etc.—We carry a full line of standard and new styles.

### CANARY BIRDS

Did you ever hear an imported Hartz Mountain Canary sing? They are the sweetest singers on earth. See page 126.

## HARDY PERENNIAL FLOWERING PLANTS

### You Should Plant More Perennials

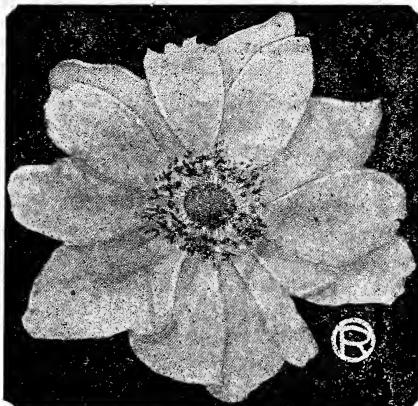
No class of plants enjoy greater popularity at the present time than the Hardy Perennials. They have made rapid strides into public favor the past few years, until now they may be considered to have a prominent and a permanent place in our American gardens. Beginning almost before the snow is off the ground, early-flowering varieties open their blossoms, as welcome harbingers of spring. Almost every week until late in the fall some new variety bursts forth into entrancing loveliness, blooming so persistently as to almost defy Jack Frost in his efforts to subdue the floral kingdom. A start may be obtained at so small an expenditure as not to be counted when measured with the satisfaction and pleasure derived from them. Once planted they are there to stay, requiring very little care, increasing in size and bloom and growing better from year to year.

#### VERY LARGE CHOICE PLANTS—LOW PRICES.

This year we are in a position to supply you with the most desirable, new and popular varieties at lower prices than ever. We have 25,000 extra large field-grown plants in the following varieties, also many other kinds which limited catalog space will not permit us to describe.

**PRICES THIS YEAR:** All perennials unless otherwise priced are 15c each, \$1.50 per dozen, postpaid.

**NOTE.**—If you wish to pay express or freight charges we will send very large plants and leave more dirt on the roots.



Anemone.

**ANEMONE—Japonica.** These beautiful Wind-flowers are one of the most important hardy plants. They begin blooming early in August and continue in full beauty until cut down by hard frost. Excellent for bouquets, lasting for days when cut. 2½ to 3 feet.

**PRICES, YOUR CHOICE, FOLLOWING 4 KINDS, EACH 15c, 4 FOR 50c.**

**Prince Henry.** Rich pink, semi-double.

**Whirlwind.** Pure white, semi-double.

**Queen Charlotte.** Silvery pink, very large, semi-double.

**Eubra Superba.** Rosy red.

**NEW GIANT FLOWERED VARIETIES.** 20c EACH, 4 FOR 70c.

**Geante Blance.** Mammoth pure white.

**Loreley.** Cup shaped, bright silvery mauve pink, rich and rare.

**Kriemhilde.** Semidouble, 4 inch flowers, petals long, narrow and closely set. Beautiful rose pink.

**Alice.** Silvery rose, shaded carmine. Quite full, very beautiful.

**ARABIS—Rock Cress.** One of the most desirable of the very early spring flowering plants for edging and the rock garden. Forms a dense carpet, completely covered with pure white flowers. 6 inches.

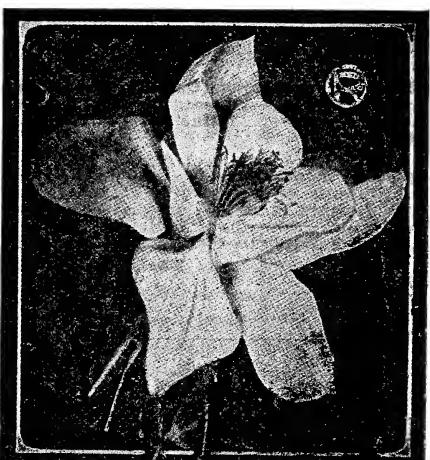
**ALYSSUM—Gold Dust.** (*Sexatille Compactum*)—Large heads of golden yellow flowers in May and June; silvery foliage; fine for rockeries; 6 inches.

**AQUILEGIAS or Columbines**—The Columbines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising two feet or more above the beautifully divided foliage, and are highly prized for cutting; June to September.

**Yellow, Blue or Mixed Colors—Each, 15c; doz., \$1.50.**

**Rose Queen**—Beautiful rose color, with white center, yellow anthers. New. **Each 20c; doz. \$2.00**

**Nivea**—Grand, long stems, pure white. **Each, 20c; doz., \$2.00**



Aquilegia, Rose Queen.

**BELLIS PERENNIS—English Daisy.**

**Giganteum.**—Improved, double, large flowering; fine for edging or borders. Flowers extra fine. 2 inches across. **Double white or pink. Each 20c; doz. \$2.00**

**Double.**—Red or white. **Each 10c; doz., \$1.00**

**Note**—New parcel post rates now enable us to send this class of plants by mail at prices quoted. These plants are perfectly hardy and will bloom nicely the first season.

## Hardy Perennial Flowering Plants—Continued

**PRICES.**—All varieties, strong, field-grown plants, 15c each, \$1.50 dozen, unless otherwise priced. Largest plants always sent when ordered by express or freight.



Canterbury Bells.  
Cup and Saucer Campanula.

### Canterbury Bells

**CAMPANULAS**—or Bellflowers. Indispensable hardy garden flowers, of much variety of form, some being of tall and imposing habit, while others are dwarf, compact little plants suitable for edging, rock work, etc.

**Persicifolia (Peach Bells).**—Large bell shaped flowers during June and July. 3 feet. Blue or white.

**Medium Calycanthema (Cup and Saucer Canterbury Bells).**—A beautiful form of this favorite flower. Blue, Rose, White or Mixed.

**Gigantea Moerheimi.**—A grand sort with long stems of pure white double camelia-like flowers, 2 to 2½ inches in diameter; in bloom from the middle of May until late in July. 2 to 3 feet.

Each 20c; doz. \$2.00

### Coreopsis

**Lanceolata Grandiflora.** Popular hardy plants. The flowers are a rich golden-yellow, of graceful form and invaluable for cutting; the main crop comes during the latter part of June, but it continues in bloom the entire summer and autumn; it succeeds everywhere; 1½ feet. (See cut.)

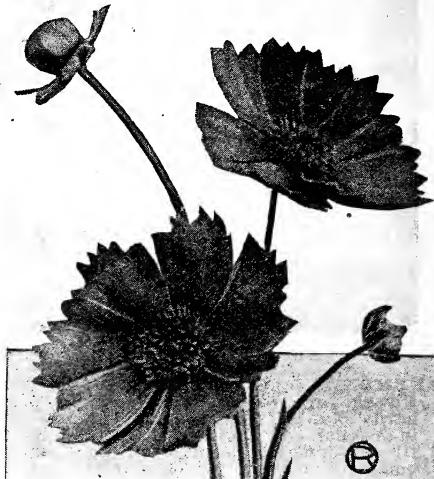
### Delphinium

**Hardy Larkspur.** These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly possessing plants of easiest culture; perfectly hardy; 3 feet.

**Light or Dark Blue or Mixed.**

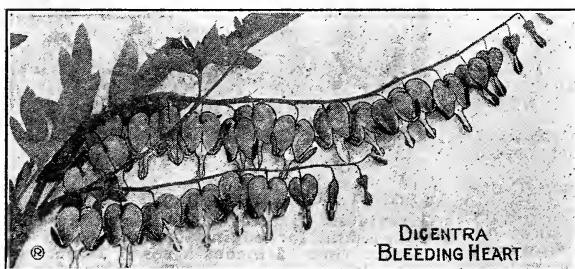
**Belladonna.** The freest and most continuous bloomer of all, never being out of flower from the end of June until cut down by hard frost. Flowers clear turquoise blue. Each, 20c; doz., \$2.00

**Duke of Connaught.** Rich oxford blue, white eye. Each, 20c; doz., \$2.00



Coreopsis.

**DAISY**—See "Bellis" for English, also "g" for Shasta Daisy

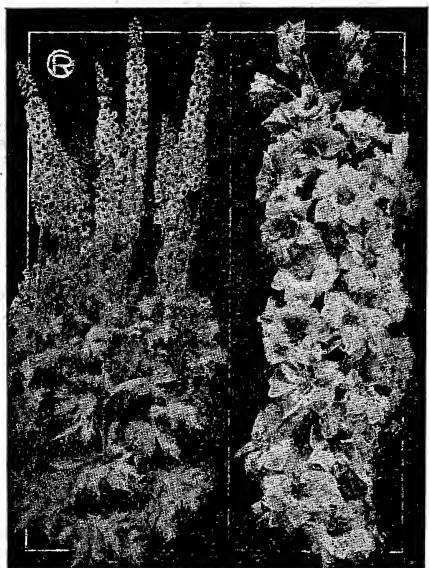


DICENTRA  
BLEEDING HEART

### Dicentra—Bleeding Heart

**Spectabilis.** An old-fashioned favorite; its long racemes of graceful heart-shaped pink flowers are always attractive. Perfectly at home in any part of the hardy border, and especially valuable for planting in the shade. (See cut.) Each, 25c and 35c

**NOTE**—New parcel post rates now enable us to send this class of plants by mail at prices quoted—a great saving.

**Delphinium (Plant and Flower Spike.)**

**DIGITALIS**—Foxglove. Old-fashioned, hardy, desirable plants with broad foliage and showy flowers borne on spikes. June and July. 3 to 4 feet. Mixed colors.

**Montana (Giant Foxglove).** Handsome, variously colored flowers in spikes surmounted with one large, saucer-shaped terminal flower. Each, 25c

**DORONICUM**—Leopards Bane. One of the most effective early flowering perennials. Very large, rich yellow single flowers with long stems during May, June and July; 2 feet. Often called Yellow Marguerite.

#### **EULALIA**

**Japonica Variegata.** A very ornamental variety; long, narrow leaves, striped green, white and often pink or yellow.

Small plants 15c to 25c; clumps 50c to 75c ea

**FORGOT-ME-NOT**—*Myosotis*

**Palustris.** A variety that is hardly ever out of flower; useful in a shady spot in the border.

#### **Gaillardia—Blanket Flower**

**Grandiflora.** One of the showiest of perennials. Rich and pleasing flowers ranging from red to yellow around a dark maroon center; excellent for cutting; 3 feet; June to frost.

#### **Gypsophila—Baby's Breath**

**Paniculata.** Minute white flowers borne in enormous quantity in open panicles during summer months. Be sure and have a few plants of this for cutting, as it works up beautifully in bouquets of other flowers; 3 feet.

**Paniculata FL PL** New. Delicate double white flowers. Very pretty. Each, 25c

**HOLLYHOCKS.** Few hardy plants combine as many good qualities as the Hollyhock. For planting in rows or groups on the lawn, or for interspersing among shrubbery they are invaluable. The flowers form perfect rosettes of the most lovely shades of color. We offer strong plants, which will flower this season. Separate or mixed colors.

#### **MELIANTHUS—Hardy Sunflowers.**

**Multiflorus** FL PL Large, double, golden-yellow flowers in great profusion during July and August; 4 feet.

**Sparsifolius.** Gracefully formed single variety, large, deep yellow color, long stems; splendid for cutting; August to September; 6 feet.

#### **HYPERICUM—St. John's-wort.**

**Moserianum (Gold Flower)** Of drooping, training nature. Fine for rockeries, etc. Free flowering. Rich golden-yellow. June to frost. Each, 15c; large plants, 25c

#### **IBERIS—Hardy Candytuft.**

**Sempervirens.** Most desirable dwarf plants with evergreen foliage, which is completely hidden with dense heads of white flowers early in the spring.

#### **LUPINUS—Lupine.**

**Polyphyllus.** An effective plant, producing large, long spikes of blue flowers. June. Each, 20c; doz., \$2.00

**Moerheimi Roseum.** A very pretty variety with rosy-pink flowers. Very effective; 3 feet. June. Each, 35c; doz., \$3.00

#### **Poppy**

**Nudicaule (Iceland Poppy.)** A beautiful race and among the most desirable of our herbaceous plants. The plant forms tufts of fern-like foliage, from among which the slender flower-stalks rise to about a foot in height and bear fragrant, cup-shaped flowers of white, yellow and orange-scarlet. The profusion of bloom is astonishing. June to October.

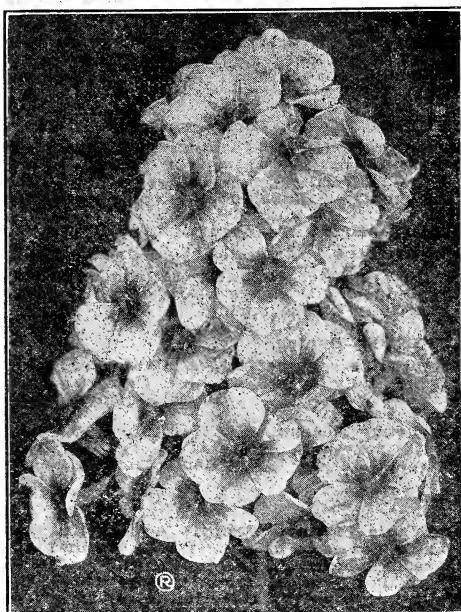
**Orientalis.** Bright red with a black blotch at the base of each petal. June to July.

**Oriental Brilliant.** Bright vivid scarlet. Each, 20c to 25c

**Oriental, Salmon Queen.** Beautiful salmon pink. Each, 20c; doz., \$2.00

**Iceland Poppy.**

## Hardy Perennial Flowering Plants—Continued



**Phlox Decussata.**

### Pampas Grass

A noble ornamental grass, easily grown, producing long, narrow pointed leaves and majestic, silvery white plumes, which are very valuable for winter decoration. Grows 6 to 8 feet high.

**Gynerium Argenteum.**—Young plants, 25c; strong roots, 35c to \$1.00; large specimen plants, \$1.50 to \$2.50 up.

### PINKS—Dianthus.

Hardy white or pink.

**Plumaris.** Bearing sweet clove-scented flowers in the greatest profusion during May and June. Indispensable for the hardy border and for cutting. 1 foot. Finest. Mixed.

### Primulus—Primrose

The hardy primroses are among the most beautiful and interesting of our early spring flowers. (See cut.)

**Veris (English Cowslip).** The richest shades, from pure yellow to the deepest crimson maroon.

**Vulgaris.** Canary yellow, very early and fragrant.

### PHLOX HARDY—

**Subulata (Moss, or Mountain Pink).** An early spring-flowering type, with pretty moss-like evergreen foliage, which, during the flowering season, is hidden under the masses of bloom. An excellent plant for the rockery, the border, and invaluable for carpeting the ground or covering graves. White, Pink or Lavender. Each, 15c

**Amoena.**—Best for carpeting the ground, the rockery or the border; it grows but 4 inches high, and in spring is a sheet of rich, bright pink flowers. Each, 15c; doz., \$1.50

### PHLOX—Continued

#### Phlox

**Decussata.** Among the hardy perennial plants no class is of more importance than the Phloxes, succeeding in almost any soil and position, and flowering through a long season. Excellent for cutting and decorating or for mass effects. Keep well in water.

#### NEW AND EXTRA SELECTED VARIETIES

—Rare and rich shades and flowers of largest and best types, very choice. **Prices:**

Each, 20c; doz., \$2.00; one plant each variety (8), for only \$1.25 postpaid.

**Antonin Mercie.** Large panicles bluish lilac, white halo.

**Selma.** A pretty delicate soft pale rose with distinct red eye.

**Von Lassburg.** Splendid pure white, very large.

**Vesuvius.** Pure red, with bright purple eye, a dazzling color.

**Goliath.** Bright crimson, handsome, large flowers.

**Mrs. Jenkins.** Immense panicles of large, white flowers. Fine for massing.

**Gruppenkoenigin.** Beautiful salmon.

**Gen. Von Hentsz.** Brilliant salmon red, white eye, large.

#### CHOICE NAMED VARIETIES OF REAL MERIT

Each, 15c; doz., \$1.50. Special—One each in this collection of 7 for 85c postpaid.

**Mrs. Lingard.** Pure white, early and continuous bloomer.

**Coquelicot.** A fine pure scarlet, crimson eye.

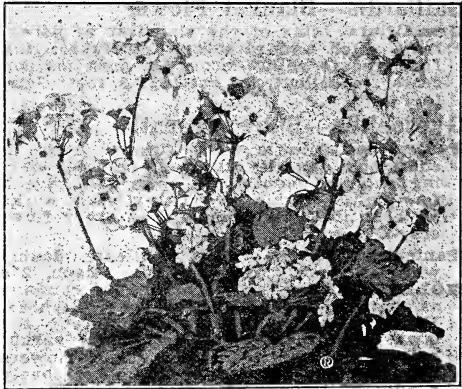
**Champs Elysee.** Bright rose, majestic, very effective.

**Eugene Danzanvillier.** Lilac shading to white. Free bloomer.

**Sunshine.** Dwarf, large aniline red, crimson eye, light halo.

**Obergartner Wittig.** Bright magenta, crimson eye, large, fine flower.

**Diadem.** Fine pure white, rather dwarf plant.



**Primulus.** Each, 15c

**REMEMBER:** All prices of above stock is 15c each, \$1.50 dozen. (unless otherwise priced) and is for large 2-year, field-grown clumps, that will bloom profusely the first season.

**REMEMBER**—We prepay charges at 15c each, \$1.50 dozen (unless otherwise priced). Plants are large, 2-year, field-grown clumps, that will bloom profusely the first season.

#### RUDBECKIA—Cone-flower.

Indispensable plants for the hardy border; grow and thrive anywhere, giving a wealth of bloom, which are well suited for cutting.

**Lancineatus (Golden Glow).** Flowers beautiful golden-yellow; very double. Marvelous continuity of bloom from June till late fall; 6 to 8 feet.

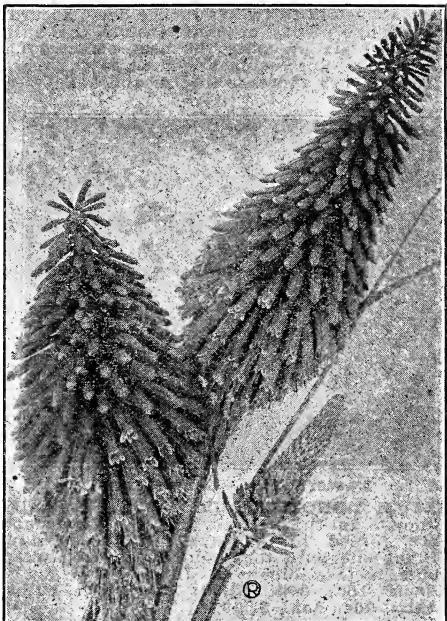
#### SAXIFRAGAS—

**Umbrosa (London Pride).** A low-growing, spreading sort, throwing up stems a foot high of pretty pink flowers in dainty clusters. Small, dark evergreen leaves, a fine border plant or for rockeries.

#### Shasta Daisy—Burbank

**Chrysanthemum Leucanthemum Daisy.** Very large daisy-like flowers, often measuring 4 to 5 inches across, having three or more rows of petals of the purest white. Flowers produced in great profusion on long strong stems. Very popular; 2 to 3 feet.

Each, 10c, 15c and 20c



Tritoma.

#### Tritoma—Red-Hot Poker

The early, free and continuous blooming qualities of the newer varieties have made Tritomas one of the great bedding plants; 3 to 4 feet flower spike.

#### VIOLETS

**California.** Single. Very showy and beautiful. Each, 15c; doz., \$1.50

**Double Russian.** Flowers double of gigantic size; color, a very rich shade of blue, and extremely fragrant.

Each, 15c; doz., \$1.50

**Small Plants,** single or double and blue or white. 10c each; \$1.00 per dozen

#### WALLFLOWERS

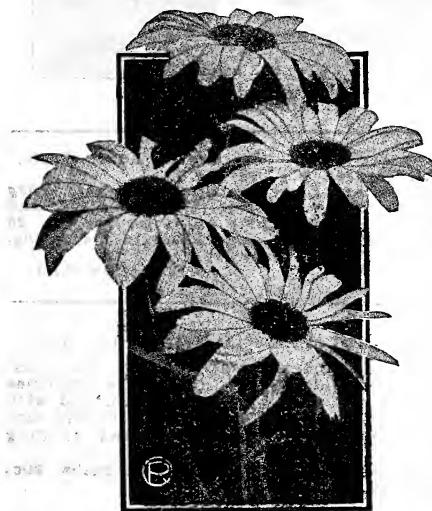
The old favorite fragrant Wallflower. Yellow, Red, or Mixed Colors.

Each, 15c; doz., \$1.50

#### Yucca (E).—Adam's Needle

A stately foliage and flowering plant equally imposing in solitary or group plantings, always conspicuous. The broad sword-like foliage is evergreen; while midsummer shows great erect branching stems bearing a showy display of pendant, creamy-white bells.

1-year plants, 8 to 10-inch, 20c each, \$2.00 dozen; 2-year and up, 35c to 50c; 15 to 24-inch, 75c to \$1.00; specimen plants, \$1.50 to \$3.00.



Shasta Daisy.

Wamic, Ore., March 9, 1915.  
Routledge Seed & Floral Co.

Gentlemen: I want to thank you for your kind and courteous attention to my few small orders during the past year. The bird I bought of you is a fine singer and attracts every one who hears him.

The bulbs you sent me all done fine and I am very much pleased with them.

Will have another small order to send you soon.

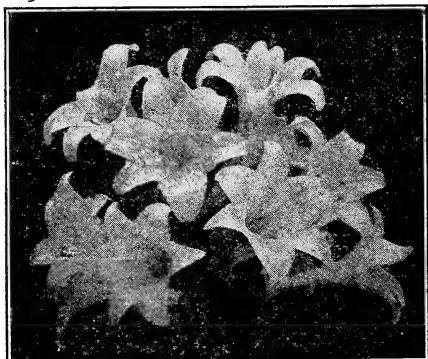
Yours truly,  
MRS. LIDA C. WHAITE.

#### OUR DESCRIPTIVE CATALOG OF TREES, SHRUBS AND ORNAMENTALS

Limited space in this catalog will not permit us to give full descriptions of all our Fruit, Shade and Ornamental Trees and Shrubs and Vines, Roses, etc., but we will gladly mail you a copy of our DESCRIPTIVE FALL CATALOG OF NURSERY STOCK. Remember we employ no agents and prepay charges on certain sized orders.

## BEAUTIFUL HARDY LILIES

These are the most fragrant, beautiful and stately of all flowers produced from bulbs; they require very little care. Do not disturb them oftener than every three to five years. Plant about six to twelve inches deep, according to size of bulb, and if the ground is not well drained use plenty of sand around the bulb, and lay it on its side. Plant in clusters or groups of six or more for best effect. The Formosa and Longiflorum Lilies force very easily. The Speciosum are, next to the Auratums, the most magnificent species for outdoor culture. They increase in size and beauty each year.

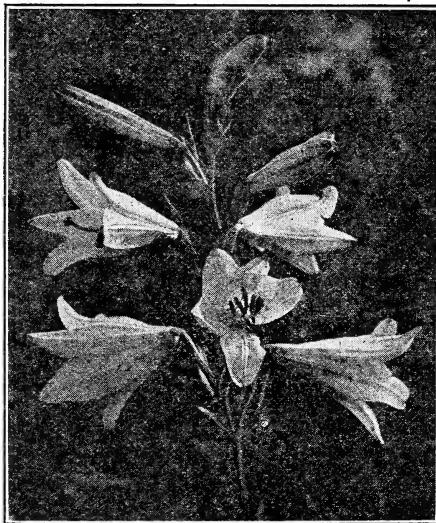


**Eastern Lily—Longiflorum.**

**LILIUM LONGIFLORUM.**—More generally known as the "Easter Lily." Thousands are forced by florists for Easter day. Plant one bulb to a 6-inch pot or planted outside they bloom in June or July. Each, 15c; doz., \$1.50; mammoth bulbs, each, 20c; doz., \$2.00.



**Auratum Lily.**



**Candidum Lily.**

**LILIUM CANDIDUM.** This is the ever-popular, fragrant, snow-white, hardy garden Lily. The flowers are produced in clusters, at the top of 4 to 5-foot stems; blooms in the open ground in June. A very hardy and popular Lily. (See cut.) Each, 15c; doz., \$1.50; mammoth bulbs, 20c

**WASHINGTONIANUM (Mt. Hood Lily).** A beautiful lily, native of Oregon; flower of open form; white, tinted with pink; grows 3 to 5 feet high; very fragrant. Three sizes, 15c, 20c, 25c each

**Medical Lake, Wash.  
Routledge Seed & Floral Co.**  
Dear Sirs: I got the lilies all right. They were the largest and best that I have ever had and I have been buying bulbs for the last 20 years. I shall want some Roses in the spring.  
Yours truly,  
**F. M. Langley.**

### **Lilium Auratum (Gold Banded Lily)**

The handsomest and probably the most popular of the Japan Lilies. Its immense ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a golden band, shading its edges into white; very fragrant. (See cut.) Each, 15c; doz., \$1.50; mammoth bulbs, 20c; doz., \$2.00.

**AURATUM MACRANTHUM.** One of the most wonderful Lilies in cultivation. The stems attain a height varying from 7 to 10 feet. The flowers are similar in color to Auratum, heavily spotted, but are much larger, the petals more overlapping, and of greatest substance.

Each, 25c; doz., \$2.50

**AURATUM PICTUM.** A most magnificent flower of same shape and color as Auratum above except that one-half of the gold band on each petal is a bright crimson; very rare and showy.

Each, 25c; doz., \$2.50

**AURATUM RUBRUM VITTATUM.** Very large flowers, often one foot across, pure ivory-white, with broad crimson stripe through center of each petal.

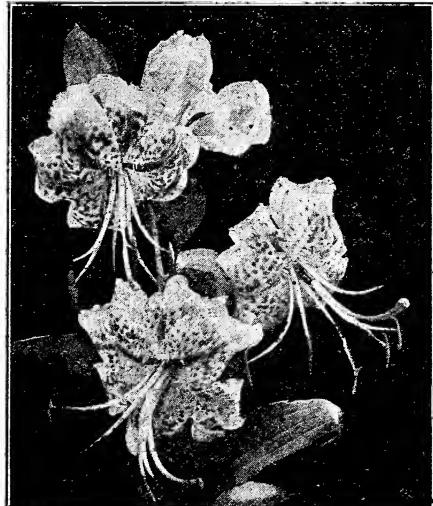
Each, 40c; doz., \$4.00

**SPECIAL OFFER**—One bulb each kind on this and the next page, our entire collection (14 bulbs), VALUE \$3.00, ONLY \$2.25 POSTPAID.

## Lilies—Continued.

**TENUIFOLIUM.** The lovely Coral Lily of Siberia. A great beauty. The brightest of all lilies. Grows 20 inches high, with finely cut foliage, slender stems and beautiful shaded flowers of a very brilliant coral-red. Blooms very early with 12 to 20 flowers per stem. (See cut.)

Each, 15c; doz., \$1.50



Speciosum Rubrum.

### Lilium Speciosum

No words can overestimate the brilliant beauty of this charming variety. Its six broad white or pink petals are thickly dotted with rose or carmine spots, and the graceful form, brilliant color, and exquisite fragrance make this one of the most effective and desirable of the lily family. They are profuse bloomers, and last for many days after being cut and put in water. (See cut.)

**SPECIOSUM ALBUM.** Pure white; flowers freely.

Each, 20c; doz., \$2.00; mammoth bulbs, 25c; doz., \$2.50.

**SPECIOSUM RUBRUM.** White, with dark rose spots.

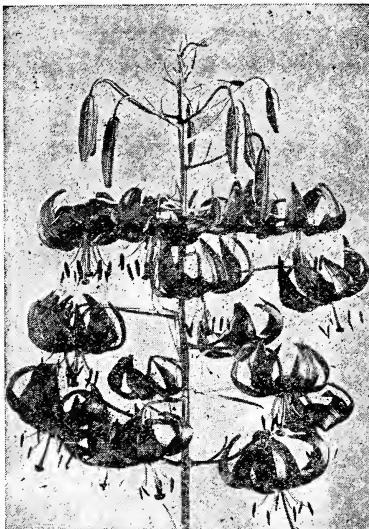
Each, 15c; doz., \$1.50; mammoth bulbs, 20c.

**SPECIOSUM MAGNIFICUM.** A new and rare variety; the finest of all the Speciosums; flowers very large, white, shaded rich blood crimson, heavily spotted; very rich and showy.

Each, 20c; doz., \$2.00; mammoth bulbs, 25c; doz., \$2.50.

**HENRYI.** (The Yellow Speciosum). A splendid new rare Lily from the mountains of China. Destined to be the Lily among Lilies. It is so healthy and sturdy, so hardy and beautiful, so easy to grow, that in time it will be in every garden, as the Tiger Lily is now. It grows, when established, 3 to 5 feet high, each stem producing 5 to 8 large rich apricot yellow flowers, banded with green. (See cut.)

Each, 50c; doz., \$5.00



Tenuifolium—Coral Lily.

### Tiger Lilies

**TIGERINUM FLORE PLENO** (Double Tiger Lily). A magnificent lily of stately habit, bearing immense clusters of large, double flowers; color bright orange, spotted with black.

Each, 15c; doz., \$1.50; mammoth size, 20c; doz., \$2.00.

**TIGERINUM SPLENDENS** (Improved Single Tiger Lily). Large flowers of excellent form; color orange salmon, with dark spots; hardy and free bloomer.

Each, 10c; doz., \$1.00; mammoth size, each, 15c; doz., \$1.50.



Lilium Henryi

**NOTE.**—On display at our salesroom we have colored plates of all our lilies, which will give you an excellent idea of just the shape and colors.

## IRIS

Magnificent plants for the garden. They bloom profusely and are exceedingly showy and fragrant. The colors are brilliant and cover a wide range of different shades and combinations. In the open ground they are perfectly hardy, increase rapidly and make a magnificent display, either in groups or borders. When the clumps get too large take up in the fall, divide and reset. Plant in the fall or early spring.



German Iris.

### Japan Iris—Kaempferi

The Japanese Iris is quite distinct from all others, and never fails to excite the admiration of all who see it. It is becoming more popular each year. The enormous flowers produced in June and July display a marvelous blending of rich and rare shades. They like a rich soil and plenty of water when in bud and flower. We offer a select collection of named varieties, as well as a very fine mixture.

**Mixed, good assortment:** Each, 15c; doz., \$1.50

#### SELECT NAMED JAPAN IRIS

**YOUR CHOICE EACH, 20c; DOZ., \$2.00**

**Haker-O-Den.** Beautiful, large, six-petaled white.

**G-Sho-Kum.** Deep blue, showing darker veins, six petals.

**En-U No-Sora.** A charming pink shading to rose, six petals.

**Momiji-Ga-Take.** Deep rich blood red, edge of petals lighter, six petals.

**Gei-Sho-U1.** Bright red, beautifully frilled, six petals.

**Shi-Chu-Ka.** Creamy white shaded and edged carmine, six petals.

**Kumo-Ubi.** Light blue or lavender pencilled yellow to the center.

**Ho-So-Kawa.** Rich royal purple, yellow and white markings in the center, six petals.

### English Iris—Anglica

Beautiful, attractive and worthy of a place in every garden. Their large, peculiarly shaped flowers remind one of the rare orchids. Set the bulbs in clumps three inches apart each way and three inches deep.

**Fineest Mixed, doz. 30c; 100, \$1.50**

**Plant more Iris—they increase in size and profusion of flowers each year and are truly beautiful and hardy.**

### German Iris—Iris Germanica

The German Iris are among the most desirable and easiest grown of our spring-flowering hardy plants, producing in May their showy flowers of exquisite coloring, combining the richest and most delicate tints.

**CHOICE MIXED**—All fine varieties.  
Each, 7c; Doz., 75c.

Choice named varieties as follows, each 10c; dozen \$1.00.

**Florentina Alba.** An excellent variety for cutting, and an early bloomer. Flowers ivory white, tinged with lilac.

**Honorable.** Intense yellow, falls a beautiful bronze.

**Mad. Chereau.** Pure white, edged with azure blue; falls deep white with blue penciling.

**Parisensis.** Uprights fine blue, falls deep blue, large and very early, fine companion to Florentina Alba.

### NEW AND RARE VARIETIES

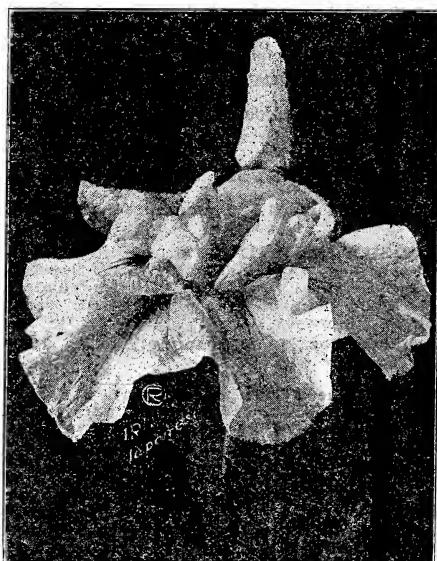
Your choice 25c each, or the collection of 4 kinds for 75c.

**Darius.** Standards rich canary-yellow; falls lilac, margined white, rich orange beard. One of the most distinct and beautiful.

**Her Majesty.** New and very beautiful. One of the choicest. Standards lovely rose pink.

**Pallida Dalmatica.** A queen among Iris; grand and stately. Silvery light blue.

**Sappho.** Large pure white, frilled lilac.



Japan Iris.

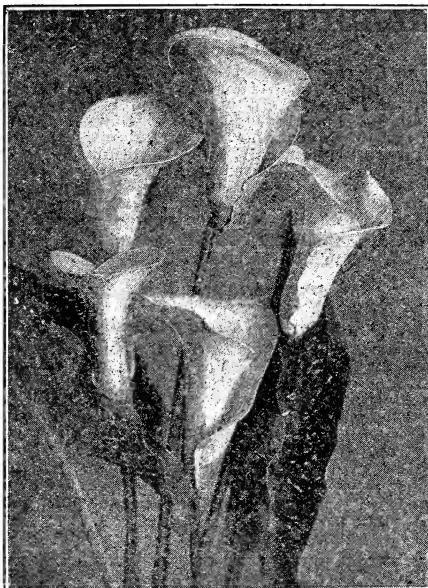
## CALLA LILIES

The Calla is one of the best winter flowering plants for room culture, needing little care beyond abundant water and an occasional washing of the leaves to keep them free from dust. Take a 4 or 5-inch pot, fill it with good, rich loam ( $\frac{1}{4}$  leaf mould and  $\frac{3}{4}$  good garden soil), then put in bulb, cover it one inch, water well and set away in a dark place for three or four weeks. As soon as it starts growing bring to the light, give abundance of water, light and heat and the result will be most satisfactory. After blooming, set the pots away and let them dry out until the following fall.

**WHITE CALLA.**—The most extensively grown. Bulbs in season from September to May.

**Small, 15c; large, 20c to 25c; extra large, 35c**

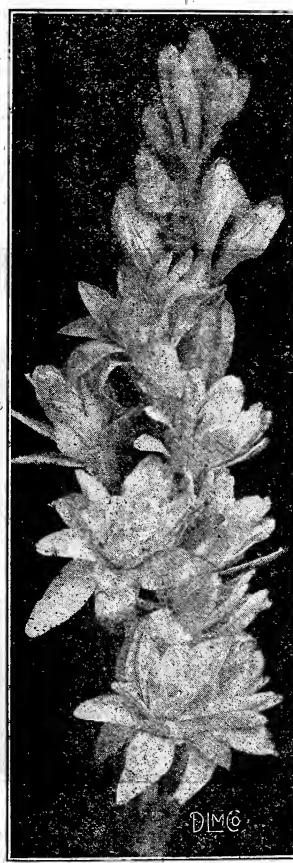
**YELLOW ELLIOTIANA.**—This new Yellow Calla is of marvelous beauty. Flowers are large, rich, dark golden yellow, often 4 to 5 inches across the mouth; leaves are beautifully spotted with white. A most valuable bulb for planting inside. Bulbs in stock from November to June. (See cut.) **Price, each 30c**



Yellow Calla Lily.

## Dad's Electric Lantern.

Everyone has use for this wonderful new light. Sure, safe and useful in a thousand ways. See page 110.



Tube Rose.

## TUBEROSES

A very desirable and most easily grown summer flowering bulb. Easily recognized by its exquisite fragrance and beautiful spikes of white flowers, which are borne on long stems, making it an admirable cut flower for house decoration. If started in pots and then transplanted to open ground, can be had much earlier. For flowering in the open border, plant in the spring after the ground becomes warm.

**Excelsior Dwarf Pearl—select bulbs.**

Each, 5c; doz., 50c; 100, \$2.50

## TUBEROUS ROOTED BEGONIAS

Excellent for pot culture or planting in lawn beds and borders. They should be grown more extensively than they now are, for they require very little attention and are in flower, out side, from early summer until heavy frosts; inside, potted, they are a constant and prolific bloomer. They will thrive either in full sunshine or in shade, but when fully exposed to the sun the beds must be well watered in hot weather.

**Culture.** — Before planting, keep the bulbs in a moist, warm place to start them, so that you can tell which is the top. Plant a foot apart in beds or 1 bulb to a 4-inch pot inside, cover about 1 inch.



Tuberous Rooted Begonia.

**SINGLE FLOWERED,** White, Red, Yellow or Orange.

Each, 10c; doz., \$1.00

**MIXED**—2 for 15c; doz., 75c.

**DOUBLE FLOWERED.**—Separate colors as above.

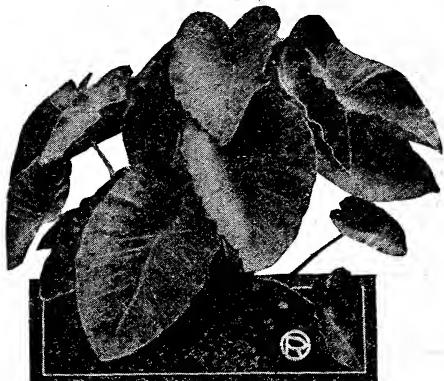
Each, 15c; doz., \$1.50

**MIXED**—2 for 25c; doz., \$1.25.

## CALADIUM ESCULENTUM.

(Elephant's Ear.)

One of the most effective plants in cultivation for beds, borders or for planting out upon the lawn. To obtain the best results it should be planted where it will obtain plenty of water and an abundance of rich compost. When full size it stands 6 to 10 feet high, and bears immense light green leaves, 3 to 4 feet long by 2½ feet wide. For best results start early inside and plant out when ground and weather is warm. **Mammoth Bulbs**, the only kind it pays to plant, each 25c and 35c.



Caladium—Elephant's Ear

## TIGRIDIAS.

(Tiger, or Shell Flower.)

These are gorgeous, rare and unique summer-flowering bulbs. They come in all colors of Yellow, Crimson, White, Rose and Spotted and look well associated with Gladioli, Lillies and kindred stock; grow about 1½ feet high, and flower freely throughout the summer. They require the same treatment as Gladioli, and should be lifted in autumn and dried off in the same way. (See cut of flower only.)

**Mixed**, all colors, each 5c; dozen 50c, per 100, \$2.50.



Tigridias.

## LILY OF THE VALLEY

One of the most charming spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Valleys thrive in any common soil, and will do well in shady situations, where few other plants will succeed. Highly prized for cutting purposes, and exceedingly well adapted for flowering in pots in the winter. Can be forced to bloom in four to six weeks from time of planting. Plant 6 pips to a 6-inch pot.

They are perfectly hardy and most charming planted in beds or borders around the lawn, where they can remain, increase and bloom from year to year. Ready from November to March.

**SELECTED PIPS**, for forcing indoors or planting outside.

Each, 5c; dozen, 50c; 100, \$3.00

**NOTE**—Higher in price on account of war.

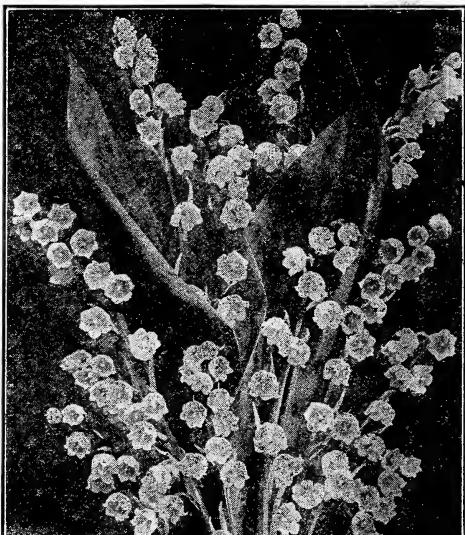
These hardy lily-like flowering bulbs are very popular for pot culture and easily grown by everyone, the chief point being to give the bulbs alternate periods of rest and growth. Plant 6 to 10 inches apart in beds; 1 bulb to a 6-inch pot for inside culture.

**AULICA OR LILY OF THE PALACE.**—Summer and autumn bloomer. Broad foliage and large spreading wide open flowers of rich crimson scarlet, lined and penciled white and maroon. Blooming bulbs.

Each, 30c; dozen, \$3.00

**BELLA DONNA**, the Lovely Pink Bella Donna Lily.—One of the most satisfactory, bearing on long stems clusters of 8 to 10 superb large beautiful pink, lily-like flowers, with a delightful fragrance. A fine fall bloomer.

Each, 25c; dozen, \$2.50



Our Fall Catalog of Dutch Bulbs, such as Hyacinths, Tulips, Narcissus, Crocus, etc., which should be planted from October to February, is issued September first. Free on request.

## CHOICE HERBACEOUS PAEONIES.

One of the most beautiful flowering plants, blooming in May and June. The new varieties are simply gorgeous. Once planted they increase in size and profusion of bloom. Most desirable and beautiful for hedges, groups or individual planting.

**DELICATISSIMA**—Large and showy, a profuse bloomer; very desirable, a beautiful silvery pink; mid-season. **Each 35c**

**FESTIVA MAXIMA**—This truly superb variety, the finest white in cultivation, combines wonderful purity of color, freedom and earliness of flower. Delicate fragrance. **Each 40c**

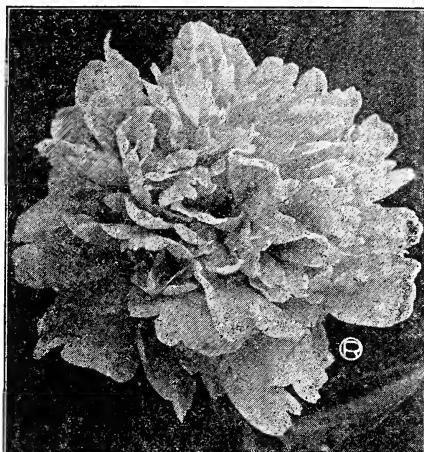
**FRAGRANS**—Very double; fine shaped bloom; perfect in outline; exquisitely fragrant; color clear, fine, deep pink. A splendid bloomer. **Each 35c**

**JEANNE D'ARC**—Beautiful and graceful flowers of blush white with a sulphur yellow center. Guard petals suffused with pink. Its fluffy appearance and delicate colors attracts the attention at once. A fine sort. **Each 35c**

**LOUIS VAN HOUTTE**—One of the most conspicuous of the dark colored varieties, blooms are produced in clusters on strong upright stems well above the foliage, color rich dark crimson. Very desirable. **Each 40c**

**LA TULIFE**—Very large globular flesh-pink shading to ivory-white, outer petals tipped carmine; fragrant; one of the best. A vigorous grower and free bloomer; late mid-season. **Each 50c**

**TRIOMPHI DE PARIS**—A strong-growing, pure white variety with creamy-white center; good bloomer and habit; mid-season. **Each 35c**



**Festiva Maxima.**

**TENUIFOLIA FL. PL. (Fringed or Carrot Leaved)**—Distinct; handsome divided foliage; flowers large, very double and of a deep blood-red; a dwarf, compact bloomer.

**Each 35c and 50c**

**Special Collection Offer**—One each of above (8 sorts) value \$2.75, special for only \$2.25, prepaid.

**Pink Peony Offer**—We have a surplus of pink sorts, and as they are not all of one shade of color they will make a beautiful bed or border. **Each 25c, Doz. \$2.00**

## CANNAS.

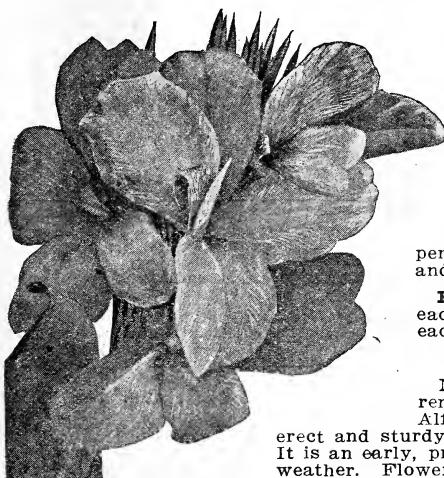
Everyone knows the value and beauty of Cannas for bedding. Their large, massive, tropical looking leaves and magnificent flowers can not be equalled in any other plant, of such easy culture. Plant in May or June, 18 inches apart in the richest bed you can give them (18 plants required for a 7-foot circular bed).

While there are many varieties of Cannas, we offer only 5 kinds, but they can be depended upon to be the most showy and desirable and especially adapted to Western conditions.

**PRICES—Strong Roots or Plants** in season 20c each, \$2.00 per doz. Large plants from pots, 25c each, \$2.50 per doz. Except Portland.

### NEW 1915 CANNA—PORTLAND.

Named in honor of the City of Portland. This remarkable new canna is a cross between Mrs. Alfred Conard and Venus. The plants are stately, erect and sturdy; attractive green foliage of the best substance. It is an early, profuse bloomer, doing equally well in hot or cool weather. Flowers, a beautiful glowing "testout" pink, showing a little salmon. Pronounced by experts to be the finest all-round pink to date. This superb new canna is especially recommended for our cool Oregon climate (3½ to 4 feet). A novelty of sterling merit, that should sell at not less than 75c each, but we wish to popularize this variety quickly and will sell roots at 25c; doz. \$2.50. **Plants 30c each; \$3.00 doz.**



**Canna-Portland.**

merit, that should sell at not less than 75c each, but we wish to popularize this variety quickly and will sell roots at 25c; doz. \$2.50. **Plants 30c each; \$3.00 doz.**

**KING HUMBERT**—King of the bronze-leaved Cannas; its mammoth flowers are produced in heavy trusses of gigantic size, and are of a brilliant orange scarlet, while the foliage is broad and massive and of a rich, coppery bronze; bold, effective (5 feet).

**LOUISIANA**—Beautiful and showy; green leaves edged bronze, strong and healthy, very fine bloomer. The mammoth flowers are of fine form and a vivid scarlet (4½ feet).

**GREEN CHARLOTTE**—A very showy and effective variety, foliage green, produces handsome clusters and beautiful scarlet flowers, each petal showing a border of rich yellow (4 feet).

**AUSTRIA**—One of the best of the giant flowered orchid type. Foliage beautiful green, strong and healthy. Flowers are of a pure golden yellow showing a few red dots on the inside petals (4 feet).

## Routledge's Superb Gladioli Bulbs

Plant 3 inches deep and as close as 6 inches in beds or borders or among the roses or shrubs. Planted at intervals from very early spring until July 1st, they will give a profusion of flowers until the first frosts.

### Choice Mixed Gladioli

Our mixed Gladioli are very fine indeed, being choice varieties only. All old and common ones have been discarded and customers can depend upon having a large and magnificent variety of colors.

**Doz., 75c; 100, \$5.00**

### Popular Mixture

This mixture will produce a large variety of flowers at a little expense; unequalled for the price.

**First size bulbs, Doz. 50c; 100, \$3.00**

**Second size bulb, but of blooming age, Doz. 35c; 100, \$2.50**

**AMERICA**—Conceded to be one of the finest varieties for cutting or bedding ever sent out; color a beautiful soft flesh-pink.

**Each, 5c; Doz., 50c; 100, \$3.00**

**BENCHLEYENSIS**—Vermillion-scarlet; bright and very showy, a great favorite.

**Each, 5c; Doz., 50c; 100, \$3.00**

**BARON HULOT**—Rich, royal violet-blue. This, when cut in combination with one of the yellow varieties, is truly exquisite.

**Each, 10c; Doz., \$1.00**

**CANARY BIRD**—Canary yellow, a very massive spike closely set with flowers.

**Each, 10c; Doz., \$1.00**

**GLORY**—Each petal is exquisitely ruffled and fluted at the edges. Delicate cream pink with carmine shading on the lower petals; flowers large.

**Each, 10c; Doz., \$1.00**

**GLORY OF HOLLAND**—Pure white, with slight marking of red in the throat. The best white of moderate price.

**Each, 10c; Doz., \$1.00**

**GOLDEN KING**—Large flower of clear yellow, with maroon throat. One of most admired of its color; new.

**Each, 15c; Doz., \$1.50**

**HALLEY**—New; quite early, color delicate salmon pink, healthy and vigorous, truly magnificent.

**Each, 7c; Doz., 75c; 100, \$5.00**

**INDEPENDENCE**—Clear salmon pink, exceptionally robust; rather late bloomer.

**Each, 10c; Doz., \$1.00; 100, \$6.00**

**JEAN DIEULAFOY**—One of the earliest to flower. The lovely creamy white blooms are decorated with a conspicuous blotch of red in the throat, which makes it very attractive.

**Each, 15c; Doz., \$1.50**

**KLONDYKE**—Soft light yellow, with crimson maroon blotch on each petal; very attractive. Fine for border, not as tall as the average.

**Each, 6c; Doz., 60c; 100, \$3.50**

**MRS. FRANCIS KING**—One of the largest and most showy varieties. Of great merit. Color is a brilliant scarlet, which attracts attention at once.

**Each, 5c; Doz., 50c; 100, \$3.50**

**MRS. FRANK PENDLETON**—All experts agree that this is one of the finest varieties yet introduced. The flowers are of largest size, borne on strong, straight spikes. In color a lovely salmony pink with brilliant deep, red blotches in the throat. Rich and exquisite in every way.

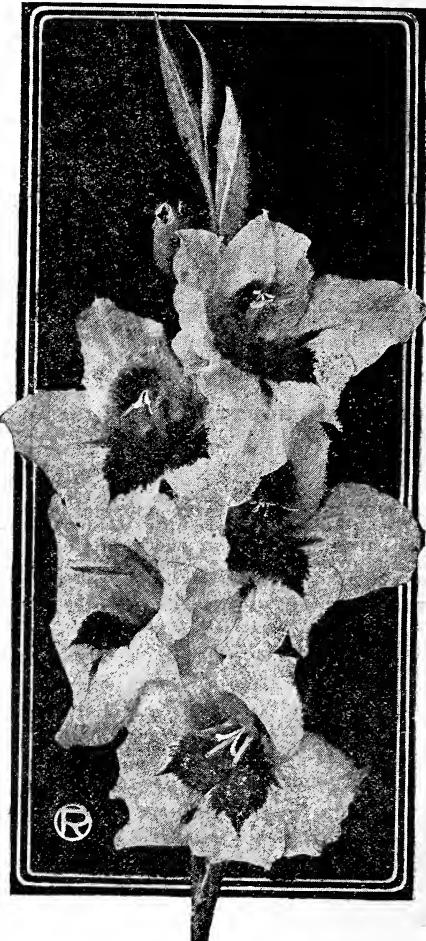
**Each, 25c; Doz., \$2.50**

**NIAGARA**—A charming American variety, with all the good qualities of America, but of a delicate cream-yellow, lightly marked and splashed with rosy-carmine in the throat; very large, open flowers on tall, straight spikes; beautiful as a cut-flower.

**Each 15c; Doz., \$1.50; 100, \$10.00**

**PRINCEPS**—The dazzling scarlet florets are immense in size and beauty. The slight markings of white on the lower petal sets it off to great advantage.

**Each, 7c; Doz., 75c; 100, \$5.00**



Mrs. Frank Pendleton.

**PANAMA**—An American introduction of sterling merit; is a favorite wherever high grade varieties are grown. It is similar to and has all the good qualities of America, but in color is a rich rose-pink.

**Each, 15c; Doz., \$1.50**

**PEACE** (New).—Immense pure white flowers with a touch of carmine in the lower petals. These are borne on tall, graceful spikes; a beautiful and exceedingly refined variety.

**Each, 15c; Doz., \$1.50**

**ROSELLA**—Delicate rose, overlaid lavender and white, large open orchid-like flowers.

**Each, 15c; Doz., \$1.50**

**TACONIC**—Bright lively pink, flecked and striped with shades of the same color.

**Each, 10c; Doz., 85c**

**WAR**—Deep blood red, shaded crimson black; very tall and conspicuous.

**Each, 20c; Doz., \$2.00**

**VICTORY**—Yellow flushed with pink. Good number of flowers open at one time; very beautiful.

**Each, 10c; Doz., \$1.00**

Don't compare our prices with the cheap mail order houses that send out little bulbs that will not flower the first year. Our bulbs are first size and all will flower nicely.

## NEW AND POPULAR DAHLIAS

We are the largest growers of new and up-to-date Dahlias, but not the largest growers of seedlings or out-of-date varieties. We believe in keeping in the front ranks with quality first. Wonderful advancements have been made in the different classes of Dahlias in the past few years, lasting qualities when cut, length of stems, upright (not drooping) blooms, size and perfection of flower is what constitutes our standard of judging in our field trials, where we grow thousands without irrigation or special cultivation. If they do well and pass our test under ordinary farm culture, they can be depended upon to be prize winners under special garden culture.

**NOTE**—We believe there are far too many varieties of named Dahlias of ordinary merit, many are almost duplicates; we will endeavor to keep our list down to about 100 of the choicest varieties.

### Best Peony Dahlias

**Special**—Our full collection of 16 varieties (value \$7.25), only \$5.00; or our selection of 4 colors, \$1.00.

**America**—A glowing old rose overlaid with a rich shade of old gold; giant flowers with broad, gracefully twisted petals; long, strong stems. **Each 50c**

**Avalanche**—Pure white, the latest introduction and claimed to be the best. **Each 75c**

**Bertha von Suttner**—Color beautiful salmon-pink, suffused yellow; large flowers, good stems. **Each 35c**

**Duchess of Brunswick**—(New)—Flowers bright apricot red, showing some orange. Prize winners in Holland and London. **Each 75c**

**Caesar**—A large semi-double flat petaled, pure yellow flower, produced freely on long stiff stems. **Each 35c**

**Great Britain**—Magnificent, large, full flowers; graceful; beautiful, clear mauve color. **Each 40c**

**Germania**—Large, full fluffy flowers, bright glowing crimson, the best in this color. Fine for cutting. **Each 25c**

**Giant Edelweiss**—Pure white, petals extra long and pointed. **Each 35c**

**Geisha**—No garden is complete without one of these gigantic flowers. Often ten inches across. The center is yellow, beautifully shaded and suffused scarlet and gold. The petals twist and curl, giving it a graceful, fluffy appearance. **Each 50c**

**Hortulanus Witte**—A giant white of great beauty, the broad, graceful petals are of good substance and of a glistening pearly white; good stems. **Each 50c**

**H. J. Lovink**—A grand large flower, white shaded lilac. Excellent. **Each 35c**

**Hortulanus Budde**—Opens a clear, bright crimson, changing to old rose and delicate fawn; broad, velvety petals. A grand, giant flower. **Each 60c**



**Avalanche.**

**Leo XIII**—A most remarkable free-flowering, full, fluffy, deep pure yellow flower. Long graceful twisted petals. **Each 60c**

**P. W. Janssen**—Old rose and salmon-bronze; excellent stems and flowers. **Each 35c**

**Queen Emma**—A graceful, flat petaled flower, freely produced on long stiff stems. The best pink in this class. **Each 25c**

**Zeppelin**—A beautiful, true, new lavender. Large, well-formed, open flowers, gracefully poised on long, strong stems. Excellent for cutting and decorations. **Each 40c**

### 1916 Peony Novelties to Be Shown This Fall.

These new novelties, all prize winners in Holland, came by special delivery in December, from our growers in Sassenheim and have not as yet been shown in America. For those who wish to have the very latest for exhibition we offer a few of these, in pot plants only, about June 1st, stock very limited. Your choice \$2.00 each, 4 sorts for \$6.00 postpaid. Descriptions very short; we can not give special points of merit until we see the flowers in our trials this fall.

**Attraction**—Very large elegant flowers of a clear lilac rose color; an exhibition flower.

**Sterna**—A giant pale sulphur color.

**Diana**—Large flowers, crimson reflected violet.

**Mrs. J. C. Vaughn**—Silver cup wine, clear yellow.

**Bianca**—Narrow petals of a lovely pink.



**Yellow King (See Page 84).**

**SPECIAL CASH OFFER**—In collections (of 3 or more bulbs) we will give you \$2.40 worth for \$2.00; \$3.60 for \$3.00, etc. (20c extra on the dollar) collection and dozen prizes excepted.

### Hybrid Cactus Dahlias

In order to distinguish these giant flowering chrysanthemum shaped Cactus Dahlia from the ordinary cactus type, the National Dahlia Society, at our last Dahlia Show, made a new class to be known as the **Hybrid Cactus**.

These flowers are a cross between the Peony and Cactus type, very large and full and have long, rather broad, curling and twisted petals in fantastic shapes. The flowers are more than double the size of most Dahlias and very beautiful. Produced on strong stiff stems; make beautiful single specimens for small vases or a gorgeous display in large vases or baskets.

The following new varieties we procured direct from our Hybridizer in Holland and were first shown by us in Portland last fall. Price, Each \$1.25; Collection of 3 for \$3.00.

**MRS. WARNAAR**—(1915)—Giant flowers on long stiff stems. Cream white, tinged pink, the back of the long twisting petals, shell pink, giving the flower a very pleasing and beautiful appearance. Award of Merit at Haarlem and Amsterdam.

**YELLOW KING**—(1915)—By far the finest and most beautiful clear yellow to date, mammoth flowers on upright stems; produces in great profusion perfect flowers of elegant shape and style. First class certificate Haarlem and Amersterdam.

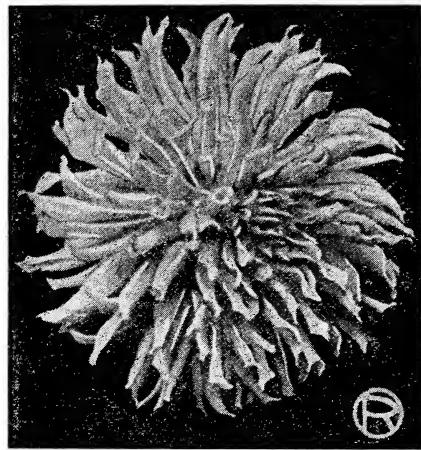
**GABRIBALDI**—(1915)—The very large flowers are perfect in form, with long flat petals that curl and twist in most fantastic style. Color bright scarlet, shading deeper to center, back of petals orange scarlet; very free bloomer. Awards of Merit Haarlem and Amersterdam.

### New and Standard Cactus Dahlias of Real Merit

As stated before (see page 83) we do not offer so many varieties of Dahlias. You will not find this class containing as many kinds as formerly, for we have discarded many varieties. Any one or all of the following if well grown should be a prize winner in any show. There is not a poor or inferior variety in the whole list, so you can make your selection to suit your fancy with perfect safety.

**SPECIAL CASH OFFER**—In collections (of 3 or more bulbs) we will give you \$2.40 worth for \$2.00; \$3.60 for \$3.00, etc. (20c extra on the dollar) collection and dozen prizes excepted.

**ALFRED NOMBLOT**—Extra large; incurving petals; Geranium red; under side of petals plum, with a golden sheen at base of petals. Very desirable. **Each 50c**



**Mrs. Warnaar.**

**NOTE**—Awards at Haarlem are given by the Dutch Bulb Grower Society at Amersterdam by the Netherland Society of Horticulture, and the flowers must be of very superior merit to secure them.

**CARDINAL KING**—A brilliant, rich cardinal red; the flowers of perfect form and exceptionally large; a grand exhibition variety. **Each 35c**

**COUNTESS OF LONSDALE**—For perfection of bloom, size, stem, abundance of flowers and lasting qualities when cut, this variety has not been excelled. The color is a rich salmon, tinted apricot. **Each 25c**

**DUCHESS DE CHARTRES**—An incurved long petalled exhibition variety. The color combination of sulphur-yellow and mauve produce a beautiful pink. **Each 50c**

**EXTASE**—Beautiful rosy pink, lighter to the center. A grand flower in every way and very large. **Each 35c**

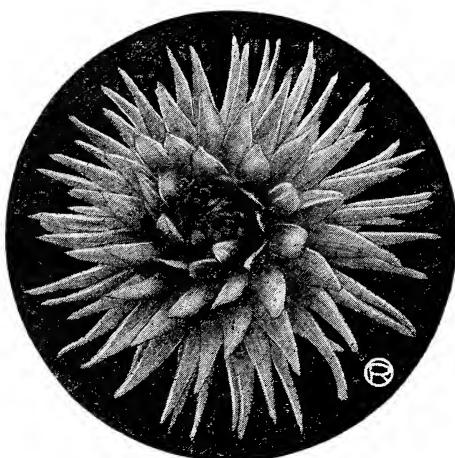
**F. HONORE**—New French variety; center yellow, passing to blush white at tips, streaked and sprinkled rosy-carmine. A large beautiful incurved flower. **Each 35c**

**FERDINAND CAYEUX**—The darkest Dahlia to date, deep velvety maroon, long pointed petals, extra good stems. **Each 50c**

**GOLDEN GATE**—A new giant golden-yellow. Highly recommended by Eastern growers; profuse bloomer. Should be disbudded and pinched back to secure large perfect flowers. **Each 50c**

**GOLDREGEN**—Pure yellow; large handsome flowers. An ideal yellow. **Each 35c**

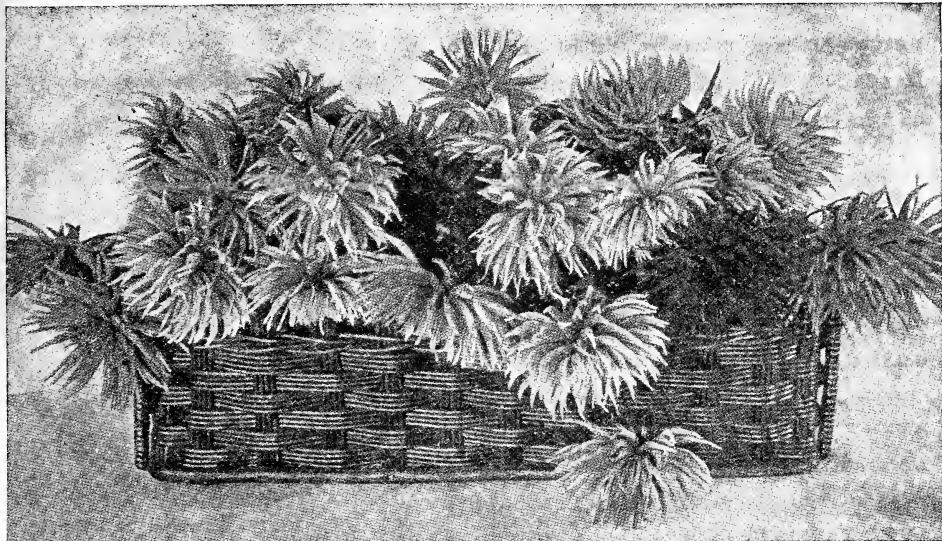
**GUNTHER**—A splendid pure white Dahlia with broad, twisted petals. **Each 50c**



**Mad. Henry Cayeaux.**

**CACTUS DAHLIA SPECIAL**—Our selection of varieties all labeled, your selection of colors only in White, Yellow, Pink, Red or Orange shades—6 for \$1.00; 12 for \$1.50. This enables us to use surplus stocks, even though they may be our high-priced varieties.

**OTHER VARIETIES?**—We are in close touch with all Oregon Dahlia growers and will gladly procure any particular dahlia you want, send price listed at by others.



**Gwendoline Tucker**—A beautiful and shaded silvery pink, large, full flower; petals incurved, carried on long, strong stems. An exhibition variety. **Each 50c**

**Indianerin**—Carmine scarlet, dark center, a rare rich color; a free bloomer. **Each 50c**

**Jacqueline Guillot**—A beautiful and attractive flower of good size, long stems; blood red, capped or tipped pure white; the best of this type. **Each 25c**

**Jeanne Hardy**—Extra large handsome flowers, petals incurving in the most pleasing style. An exhibition variety. Pure carmine red, lightly tipped white. **Each 75c**

**John Riding**—Dark rich scarlet; long florets; incurving over the center of the flower; best of its color. **Each 50c**

**Kalif**—A giant majestic flower; color, pure scarlet; good stems, fine bloomer. **Each \$1.00**

**Mandeblyte**—Beautiful in shape and color, a rich deep pink. **Each 35c**

**Manon**—Extra large flowers, sulphur-yellow shading to primrose at points of petals. A free bloomer. **Each 25c**

**MAD. PAUL BULTOT**—A beautiful combination of aurora and salmon, of fine form; incurving, twisted petals. **Each 25c**

**Madeleine Cazalis**—Pure white flower, perfect in form, large, very full; very free bloomer. **Each 25c**

**Mephisto**—Very fine, full showy flowers. Shining fiery red, borne on long, stiff stems, petals curved. **Each 35c**

**Mercury**—Beautiful large full flowers. Petals fine and pointed, incurving. Coral red, deeper to the center. **Each 35c**

**MAD. EUGENE REMY**—Rosy lilac, very rich; free bloomer; petals long and incurving. **Each 25c**

**Modell**—Yellow, with a delicate plum blush sheen over tips of petals; a dainty, lovely flower of large size, perfect form; erect on long stems. **Each 35c**

**Monsieur Cazalis**—White, overlaid with violet rose, producing a lavender shade. **Each 25c**

**Monsieur Barat**—A large and beautiful flower; color, white, striped and lined purple and violet, making it very showy. **Each 50c**

**Mrs. Doug. Fleming**—Without doubt the best white Cactus Dahlia. Petals long and tubular and so numerous as to make massive flowers. Exhibition variety. **Each 60c**

**MAD. HENRY CAYEAUX**—Of premier merit, elegant form. A beautiful, tender rose. Petals long, white tips. **Each 50c**

**Mrs. Henry Wirth**—This splendid variety is in full bloom from early until late, full double flowers of intense rich glowing scarlet. **Each 25c**

**Mrs. Ferdinand Jeffries**—Long petals curved and twisted; beautiful and full; deep velvety red. **Each 25c**

**Nantwich**—Very dainty and graceful; golden yellow, overlaid salmon, incurving; narrow pointed florets. **Each 35c**

**New York**—Rosy salmon-orange color, with bronzy shadings. One of the largest, held erect on long, strong stems; perfectly free bloomer. **Each 60c**

**Rene Cayeux**—An early, continuous and free bloomer. Flowers borne well above the foliage. For a hedge or a mass effect it could not be equaled. A rich, bright red. Bushes rather dwarf. **Each 25c**

**Sequoia**—Deep saffron-yellow, with long tubular petals cleft at the tops. **Each 25c**

**Suzanne Cayeux**—White exhibition variety; flowers very large, beautiful and graceful; incurving. **Each 50c**

**Uncle Tom**—Free bloomer; deep crimson, almost black; excellent shape. **Each 25c**

**Villa de Lyon**—Flowers magnificent, large and of superb texture. Petals round, long, straight and pointed; rich rose; center almost pure white. **Each 50c**

**Viola**—A full well-shaped flower, very rich and desirable. Violet purple. **Each 35c**

**Wm. Marshall**—Flowers extra large, fine form, long twisted petals. Color yellow overlaid and shaded orange. **Each 50c**

**SPECIAL CASH OFFER.**—In collections (of 3 or more bulbs) we will give you \$2.40 worth for \$2.00; \$3.60 for \$3.00, etc. (20c extra on the dollar) collection and dozen prices excepted. 6 Cactus Dahlias, 6 sorts our selection, \$1.00.

## Show Dahlias—Quilled

Very beautiful and desirable. Excellent for cutting. Stand handling and shipping well. In shape they are rather round or ball-shaped, and the petals are quilled (see illustration below).

**PRICES**—Unless otherwise priced, your choice 20c each, 6 for \$1.00, postpaid.

**BALZAC**—Extra large perfect flowers, dark velvety maroon, very rich. **Each 35c**

**CALEB POWERS**—Early, free bloomer. Good size, soft pink, splendid form.

**DIADEM**—Very large, of fine form on long stems; a beautiful rich crimson.

**DREEER'S WHITE**—A pure glistening white. Free flowering and most valuable for cutting and show. **Each 25c**

**FASCINATION**—Rosy pink, free flowering.

**GRAND DUCHESS MARIE**—Extra large flowers, same style as Le Siam, but of a pleasing orange buff and light salmon. A free bloomer. **Each 35c**

**GRAND DUKE ALEXIS**—Very popular and always in demand. Color, ivory white, lightly tinged rosy lavender on edge of petals. **Each 25c**

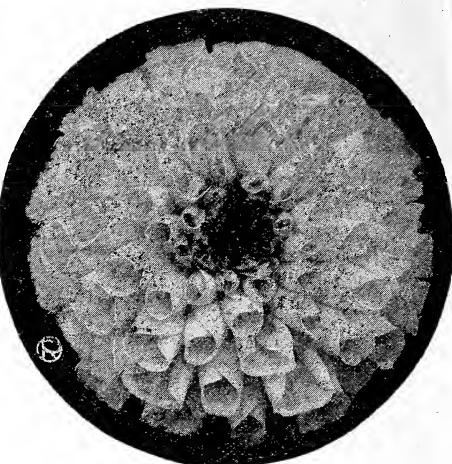
**HENRY CLARK**—Pure lilac, edged and penciled with a deeper shade.

**LE SIAM**—A grand flower, same style and shape as the popular W. W. Rawson, but of a rich, silvery rose. Free bloomers and good stems. **Each 35c**

**LUCY FAWCETT**—Sulphur-yellow, flaked crimson. Fine large flowers, very full.

**NORMA**—Bright orange; one of the best grown; extra fine shape.

**THOMAS PENDRED**—Without doubt the finest yellow show Dahlia ever offered.



W. W. Rawson.

**W. W. RAWSON**—(See Cut)—Large, perfect but graceful flowers are borne on long, stiff, erect stems. The color is pure white, overlaid with amethyst-blue, producing a beautiful effect. **Each 35c**

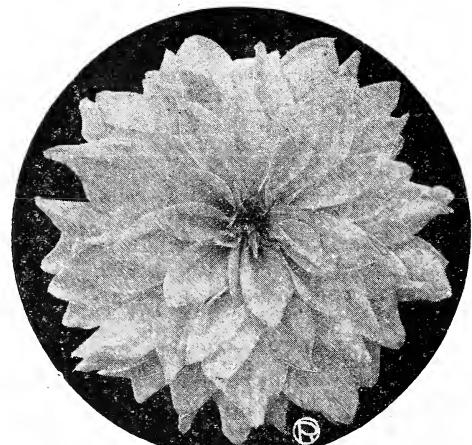
## Decorative Dahlias

Many beautiful varieties have been introduced, some with flat petals, other reflexed, incurved or curiously twisted, but nearly all are without formality or stiffness, and practically all of them are leaders as cut flowers, bearing their blooms on long, stiff stems.

**DELICE**—A beautiful glowing rose-pink. Perfect shaped flowers on long, stiff stems. Excellent for cutting. (See cut.) **Each 35c**

**GAIETY**—A superb new vivid scarlet, beautifully tipped with pure white. **Each 25c**

**HALLEBARDE**—Extra large. A pleasing combination of yellow and orange. **Each 35c**



Princess Julianne.

**MORTULANUS PIET**—New. Of mammoth size. A rich and pleasing apricot shading to old gold in center. Beautiful flowers on good stems. **Each 50c**

**LE GRAND MANITO**—A most effective fancy variety of splendid shape and very large, shaded, striped and blotched with deep red and violet, some flowers may be solid color. **Each 35c**

**MAMMOTH**—Large handsome flowers, shape of S. De G. Doazon, but of a dark velvety red. **Each 35c**

**MEADOW GOLD**—Flowers large and produced in great profusion. Primrose yellow, tinged delicate pink. **Each 25c**

**MONSIEUR CAPRON**—Handsome, large flowers, amarante crimson, each petal delicately edged pure white. **Each 50c**

**MME. JEANNE CHANTRE**—Rich pink or bright rose, shading to a creamy white. Grand, showy and pleasing flowers on strong stems. **Each 50c**

**PERLE DE LYON**—A valuable white decorative Dahlia for cut-flower purposes; of good size and held erect on long, stiff, wiry stems, superior to Mrs. Winters. **Each 25c**

**PRINCESS JULIANNE** (See Cut)—Award of Merit, Amsterdam; Award of Merit, R. H. S. London. Flower large, full, pure white, perfect shape, stands erect on long, stiff stems and lasts for days. **Each 50c**

**REISE VON STUTTGART**—Sport from Souvenir de Gustave Doazon. A bright blood-red, shading deeper to the center. **Each 25c**

**SOUVENIR DE GUSTAVE DOAZON**—The immense flowers are borne in profusion; color bright red. **Each 20c**

**SPECIAL CASH OFFER**.—In collections (of 3 or more bulbs) we will give you \$2.40 worth for \$2.00; \$3.60 for \$3.00, etc. (20c extra on the dollar) collection and dozen prices excepted.



Delice (See Page 86).

**French Collerette Dahlias**

An entirely distinct type, having a row of artistic petals around the disc, which form a frill or collar and which is of a different color from the rest of the flower. Excellent for cutting, have good stems, last well in water and the fall rains do not discolor them. (See cut.)

**PRICE**—Your choice 30c each, 4 for \$1. Full set of eight distinct varieties only \$1.65.

**EUREKA** (Diadem)—Perfect pointed petals of brilliant carmine; collar white. Very pretty. (See cut.)

**EXPOSITION DE LYON**—Very gay; bright garnet; collarette cream-yellow; very attractive; free bloomer.

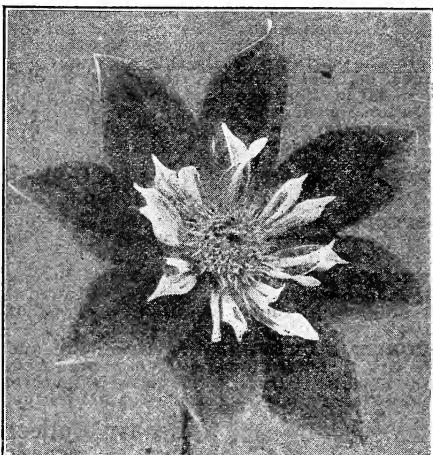
**FROGMORE**—Yellow overlaid vermillion; splendid petals and very perfect flowers; collarette yellow.

**IDEAL**—Cardinal red, collarette yellow, very attractive.

**M. MARTINET**.—Very large, vermillion shaded yellow; collarette yellow.

**Mixed Dahlias**

We have decided it is only confusing and unnecessary to list over 100 varieties of Dahlias. We have therefore cut our list of varieties in half and made a mixture of about 100 named varieties (unlabeled) which we offer at 15c each, 2 for 25c, 12 for \$1.25, postpaid. These are all very choice varieties and will make a beautiful display at little cost.



Eureka (Diadem).

**PRINCESS LOUISE**—Rich glowing, crimson; broad flat petals and white collarette, very distinct

**WINDSOR**—Pale chrome yellow, suffused with rosy pink. Straw colored collarette.

**M. MEYDE MONT**—Velvety red shading to rosy pink, collarette creamy white.

**New Single Flowered Dahlias**

This class of Dahlias has become quite popular of late, they are showy in the garden, very free flowering and excellent for cutting and general decorating.

**Prices.**—Your choice (except where noted), each 25c. Full collection (6 kinds), \$1.25 postpaid.

**CARDINAL CENTURY**—Very large, bright cardinal red with round petals.

**FRAU DE NEBELTHAU**—The best pure white, excellent stems, large flower.

**FREGOLI**—Giant flowers on long stems. Carmine with a large spot of pure white on each petal; very showy and distinct.

Each 35c

**MRS. J. C. HANCE**—Large, well rounded flowers; white slightly flushed with soft pink.

**ROSE PINK CENTURY**—Largest and best deep pink with long stiff stems; fine for cutting.

**ROTGOLD**—Bright red, centered with a broad, yellow zone; very attractive. Giant flowers on long stems.

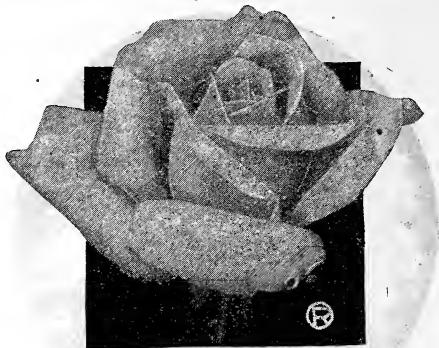
Each 50c

Giant Single Dahlia—One-third Full Size.

**DAHLIA CULTURE**—When you get your bulbs, put them in a warm, moist place so as to start an eye or sprout. Some varieties sprout quicker and earlier than others, but do not plant until they start, then you will have no vacant places. Lay the bulb on its side and cover four inches and 30 to 40 inches apart.

**CHOICE ROSE PLANTS**  
**FOR SPRING AND EARLY SUMMER**  
**PLANTING AND NOT FOR**  
**FALL DELIVERY.**

On this page we are offering four choice collections of the finest roses. This is the popular mail order size that we send by mail prepaid. They are grown in 3-inch pots, are strong, healthy and well rooted, and from 10 to 12 inches high. They should not be planted outside before severe weather is over in the spring. While this size will not produce so many blooms the first season as our large field-grown plants offered on the following pages, you will be surprised at the results you can obtain, and at quite a saving in price.



Sunburst

**Novelty Collection of New Roses**

Price 25 cents each. Set of 6 sorts \$1.20

**BRITISH QUEEN.**—A grand new Gold Medal rose from Ireland. Pure white. The highest order of merit.

**DUCHESS OF SUTHERLAND.**—Strong grower; handsome, large flowers. Beautiful rose pink with lemon shadings on base of petals.

**GEORGE DICKSON.**—Very large, full and perfectly formed flowers freely produced. Color, blackish crimson of velvety texture. A magnificent rose invaluable for exhibition.

**Beauty Collection Choice Roses**

Price, 15c each; set of twelve for \$1.25.

**American Beauty.**—Large rosy crimson flowers; sweet-scented.

**Belle Selbrecht.**—Rose-pink; beautiful buds.

**Dean Hole.**—Bright carmine with silvery shadings.

**Kaisserine Auguste Victoria.**—Large pure white; very free and constant.

**Lady Battersea.**—Bright cherry crimson, long pointed buds.

**Mad. Abel Chatenay.**—Salmon pink, shaded

**Favorite Collection**

Price, 15c each; set of twelve for \$1.25.

**Bessie Brown.**—Ivory white, tinged flesh. Very large.

**Bon Lilene.**—Dark rosy carmine; an old standby.

**Duchess de Brabant.**—Rosy pink with silver shadings.

**Duchess of Albany.**—Deep pink; large and globular.

**La France.**—Silvery pink, large and very sweet-scented.

**Marie Van Houte.**—Light yellow, flushed carmine.

**Popular Collection Hardy Roses**

Price, 15c each; set of twelve for \$1.25.

**Anna de Diesbach.**—Beautiful, clear carmine pink.

**Baron de Bonstettin.**—Dark, rich red; very large.

**Clio.**—Massive, light pink flowers.

**Conrad F. Meyer.**—Beautiful silvery pink.

**General Jacqueminot.**—Bright crimson; one of the best.

**Glorie Lyonnaise.**—Chamois yellow; full, sweet, distinct.

**Climbing or Pillar or Rambler Roses**

We can supply most of our climbing roses in one-year-old plants at 15c each, 4 for 50c. Make your selection from varieties described on page 92.

**REMEMBER**—These pot grown rose plants can be supplied in the spring and early summer months only.

**OPHELIA.**—Salmon, flesh, shaded rose, base of petals apricot yellow. Fine shaped flowers. Excellent habit.

**SUNBURST.**—Without doubt the finest yellow rose in existence. Large buds and flowers of an orange-copper color shaded golden yellow. Superb.

**WILLMORE.**—A splendid new rose. Buds coral red, suffused with carmine opening into a large, full flower of a rich shrimp pink shaded to yellow in the center.

**Beauty Collection Choice Roses**

darker. Always in bloom.

**Mad. Caroline Testout.**—The famous Portland Rose. Large, bold, bright pink flowers.

**Maman Cochet.**—Beautiful rosy pink.

**Richmond.**—Crimson scarlet buds.

**Souv. de P. Notting.**—Rich yellow, bordered pink.

**Souv. de President Carnot.**—Shell pink and fawn.

**White Maman Cochet.**—Pure white; elegant buds.

**Everblooming Roses**

of twelve sorts \$1.25.

**Papa Gontier.**—Cherry red, shaded yellow. Grand bedder.

**Rainbow.**—Creamy pink striped and mottled crimson.

**Safrano.**—Apricot yellow, tinged fawn; beautiful buds.

**Virginia E. Coxe** (Grus an Teplitz).—Fiery scarlet.

**Viscountess Folkestone.**—Delicate flesh pink; full and handsome.

**White La France.**—Blush white, finely formed.

**Margaret Dickson.**—Ivory white, shaded flesh.

**Mrs. R. G. J. Crawford.**—Silvery pink, fine form.

**Mrs. John Laing.**—Soft, delicate pink; free flowering.

**Paul Neyron.**—Large, deep rose; double and handsome.

**Prince Camille de Rohan.**—The best dark maroon.

**Ulrich Brunner.**—Rich, glowing crimson; large.

## Choice Field Grown Rose Bushes

We make a specialty of Rose Bushes and sell thousands upon thousands. Our bushes are strong, healthy field grown stock, well rooted, and will produce a profusion of bloom the first season, if given good care and cultivation. We enjoy the reputation of supplying the best stock at reasonable prices. The following list is the choicest of American and European introductions.

### SHIPPING AND DELIVERY.

We can fill orders for our large two-year-old rose bushes any time from October to May—the best planting time is during favorable weather in November, December, January, February and March. One-year-old from March to July.

**WE PRUNE THE TOPS** of all bushes sent by mail as they carry better. If all rose bushes when set out were cut back to within 10 or 12 inches of the ground, results would be better than when tops are left on.

### Abbreviations

**T.—TEA**—One of the best classes of Roses and truly ever blooming. They are hardy in this section, although during our coolest weather and in cold sections they should be protected with a covering of fir boughs, straw or burlap.

**H. T.—HYBRID TEA**—Most of these are as free flowering and as constant bloomers as the teas, and are hardier, stronger growers.

**H. P.—HYBRID PERPETUAL**—The hardest of all roses, vigorous in growth, free blooming.

**AMERICAN BEAUTY (H. P.)**—Constant bloomer, magnificent buds; large, bold flower; color rich, rosy red.

Each 35c and 50c

**AUGUSTUS HARTMANN (H. T.)**—Brilliant geranium red flushed with orange. It obtained the silver medal on many occasions as "the best bloom in the show," and the National Rose Society gold medal at the Botanical Gardens, 1914. Each \$1.50

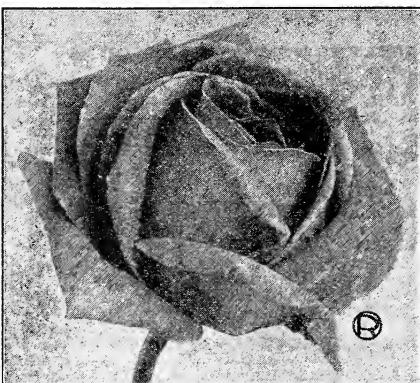
**AVOCA (H. P.)**—Brilliant, velvety-crimson; buds long; flowers large, sweetly perfumed. Each 40c and 50c

**BARONESS ROTHSCHILD (H. P.)**—Large size, fine globular form; color bright rosy pink. Each 35c and 50c

**BRITISH QUEEN (H. T.)**—Pure white, large full flowers of exquisite form. Each 75c

**CHATEAU DE CLOS VOUGEOT (H. T.)**—A very rich, fiery scarlet shading to deep velvety crimson. It is delightfully fragrant, a prolific and continuous bloomer. Each 50c and 60c

**DUCHESS OF SUTHERLAND (H. T.)**—Color, warm rosy pink with lemon yellow shadings. A grand exhibition rose. Each \$1.00



Geoffrey Henslow.

**DUCHESS OF WELLINGTON (H. T.)**—Intense saffron-yellow, later becomes deep coppery yellow; delightful fragrance. Each 60c

**DOROTHY PAGE ROBERTS (H. T.)**—Coppery pink suffused with apricot yellow, very free and profuse bloomer. Each 50c and 60c

**EDWARD MAWLEY (H. T.)**—Of grand size and build and a free bloomer. Color intense crimson scarlet and of velvety texture. Each 50c and 60c

**FRAU CARL DRUSCHKI (H. P.)**—A large, grand, hardy, pure white; best and most popular. A splendid variety for hedges. Each 25c, 35c and 50c

**FLORENCE PEMBERTON (H. T.)**—Creamy white, suffused pink; flowers very large and full. Each 35c and 50c

**GENERAL MCARTHUR (H. T.)**—Color, brilliant scarlet; beautiful buds and most desirable in every way. Each 35c and 50c

**GENERAL JACQUEMINOT (H. P.)**—Bright shining crimson scarlet; very rich and velvety; one of the best. Each 25c, 35c and 50c

**GEOFFREY HENSLOW (H. T.)**—A delightful orange-crimson of great brilliancy. A good exhibition flower; distinct; deliciously pure rose perfume. Each 75c

**GEORGE DICKSON (H. T.)**—A velvety blackish crimson with the back of the petals heavily veined with pure crimson maroon. Pronounced by all who have seen it to be unequalled to date. Each \$1.00

**HENRY MUNCH**—See Pink Druschki.

**HERZOGIN MARIA ANTOINETTE (T.)**—Deep orange striped salmon crimson, passing to old gold. Fragrant. Each \$1.00

**HIS MAJESTY (H. P.)**—The Crimson Frau Karl Druschki. Dark, deep crimson, shaded deep vermillion-crimson towards the edges; of great size. Each 50c and 60c



General McArthur.

**DOZEN PRICES.**—We give you our 35c selected two-year-old bushes at \$3.00 doz.; our 40c and 50c extra selected at \$4.00 doz. We can supply the ordinary grade of 25c bushes at \$2.50 doz. All charges prepaid. (See page 93.)

**HUGH DICKSON (H. P.)**—Brilliant crimson, shaded scarlet; good size and fine form; finely perfumed. **Each 35c and 50c**

**IRISH ELEGANCE**—Bronze orange in the bud, opening into large single flowers of a lighter shade. **Each 35c and 50c**

**IRISH FIREFLAME** (Dickson & Sons, 1914.)—These buds are wonderfully rich in coloring; a rich deep orange, splashed with crimson, opening to a large single flower of a satiny, old-gold shaded with ochre. Awarded gold medal. **Each \$1.00**

**JULIET (H. P.)**—Very attractive; inside of petals golden yellow, outside rosy red; large, full, fragrant. **Each 50c**

**JONKEE J. L. MOCK (H. T.)**—A magnificent and unique rose. Inside of petals red, outside bright pink. **Each 50c and 60c**

**JOSEPH HILL (H. T.)**—Salmon pink, shaded orange and copper. **Each 50c and 60c**

**J. B. CLARKE (H. T.)**—Deep dark scarlet, large and beautiful. **Each 35c and 50c**

**KAISERIN AUGUSTA VICTORIA (H. T.)**—Beautiful buds and flowers; creamy white; deliciously fragrant. **Each 25c, 35c and 50c**

**KILLARNEY**—It mildews so badly we recommend Madame Leon Pain. **Each 50c**

**KING GEORGE (H. T.)**—A new rose of great merit; blackish-crimson with deep velvety-violet flush. **Each 75c**

**LA FRANCE (H. T.)**—Very popular. A beautiful silvery pink. **Each 25c, 35c and 50c**

**LADY HILLINGDON (H. T.)**—Deep apricot yellow, long pointed bud. **Each 60c**

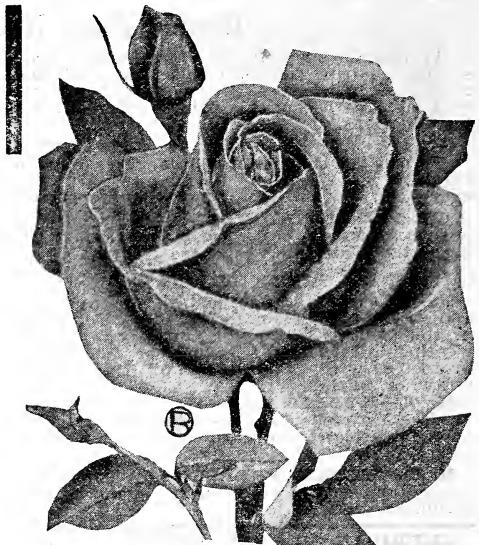
**LADY URSULA (H. T.)**—Truly magnificent; a delightful shade of flesh pink. **Each 50c and 60c**

**LYON ROSE (H. T.)**—Distinct. Shrimp pink with salmon and chrome yellow shadings, beautiful beyond description. **Each 50c and 60c**

**MABEL DREW (H. T.)**—A magnificent rose, exquisitely shaped; deep cream, passing to intense canary-yellow in the center. **Each \$1.00**

**MADAME CAROLINE TESTOUT (H. T.)**—Portland's famous brilliant pink rose. **Each 25c, 35c and 50c**

**MADAME EDOUARD HERRIOT**—Long pointed buds, a deep coral red color shaded to yellow at the base; flower of a rare shade of rosy scarlet flushed with shrimp and apricot tints. Won the Daily Mail's \$5000 gold cup. **Each \$1.50**



Mad. Edouard Herriot.

**MAD. MAURICE DE LUXE (H. T.)**—Rich, rose-pink, shaded carmine. **Each 50c and 60c**

**MAD. MELANIE SOUPERT (H. T.)**—Saffron yellow suffused with carmine and pink. A great favorite. **Each 50c and 60c**

**MADAME LEON PAIN (H. T.)**—A beautiful salmon-pink overlaid with silvery-white, center yellow. Similar, but better than Killarney. **Each 35c and 50c**

**MAD. SEGOND WEBBER (H. T.)**—A magnificent light rosy salmon. Buds long and pointed, flowers immense. **Each 50c and 60c**

**MADÉMOISELLE CECILE BRUNNER**—Dwarf Polyanthus. Exquisite little roses, buds dainty, pointed, bright salmon pink, yellow center. **Each 35c and 50c**

**MAMAN COCHET (T.)**—Very popular; a deep, rosy pink, the inner side of petals silver very rose. **Each 35c and 50c**

**MARIE VAN HOUTTE (T.)**—Straw-yellow color; outer petals shaded bright rosy carmine. **Each 35c and 50c**

**MELODY (H. T.)**—Yellow, deepening to apricot in the center; perfect in form, free bloomer. **Each 75c**

**MARQUISE DE SINETY (H. T.)**—Beautiful golden-yellow shaded rosy-red, delightfully fragrant. **Each 60c and 75c**

**MISS ALICE DE ROTHSCHILD (T.)**—Often called bush Marechal Neil. Rich, deep citron-yellow; deliciously fragrant. **Each 75c**

**MISS CYNTHIA FORDE (H. T.)**—A deep brilliant rose-pink, very large; sweetly perfumed. Gold medal N. R. S. **Each 75c**

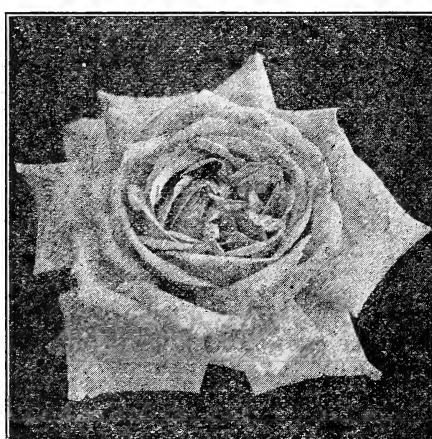
**MILDRED GRANT (H. T.)**—Large and beautiful, silvery white, shaded peach. **Each 40c and 50c**

**MRS. AARON WARD (H. T.)**—Very distinct. Coppery orange in the bud, shading to gold and pink. **Each 50c and 60c**

**MRS. A. WADDELL (H. T.)**—Color, deep reddish apricot toned with salmon; long pointed buds. **Each 35c and 50c**

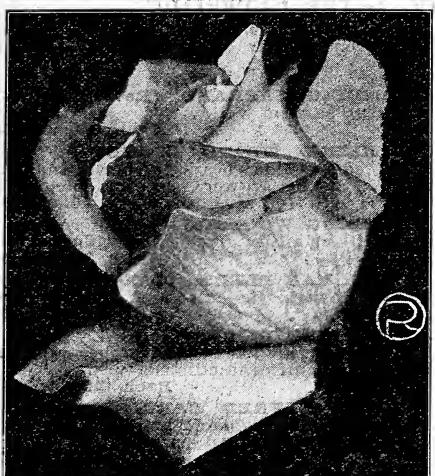
**MRS. FOLEY HOBBS (T.)**—A veritable giant among Tea roses; delicate ivory white tinged pink on edge of petals; deliciously scented. **Each 75c**

**MRS. FRANK BRAY (H. T.)**—A rich deep coppery ecru, developing as the flower opens to a very delicate coppery-fawn with a shading of ivory shell-pink. **Each 75c**



Miss Cynthia Ford.

**DOZEN PRICES.**—We give you our 35c select two-year-old bushes at \$3.00 doz.; our 40c and 50c extra select at \$4.00 doz. We can supply the ordinary grade of 25c bushes at \$2.50 at \$2.50 doz. All charges prepaid. **Descriptive Rose Catalog, see page 93.**



Mrs. Foley Hobbs (Bud)

**MRS. MUIR MACKEAN (H. T.)**—A new rose of special merit; unique and quite distinct; bright carmine crimson, without shading. A grand exhibition and garden rose. **Each 75c**

**MY MARYLAND**—This rose is little less than marvelous; a bright glowing pink, each petal being shaded lighter at its base. **Each 40c and 50c**

**OLD GOLD** (New).—A vivid reddish orange with rich coppery red and coppery apricot shadings. Long dainty buds lasting a long time in perfect condition. **Each, \$1.50**

**OPHELIA (H. T.)**—A beautiful new rose of perfect shape. Creamy white shaded peach or apricot. Greatly admired at our 1915 Rose Festival. **Each, \$1.00**

**PAPA GONTIER (T.)**—Vivid cherry red color, shaded yellow. Prized highly for its beautiful pointed buds. **Each 35c and 50c**

**PAUL NEYRON (H. P.)**—Deep, shining rose; a giant in size. **Each, 35c**

**PERLE DES JARDINS (T.)**—Beautiful, clear, golden yellow, entirely distinct from any other variety. **Each 35c and 50c**

**PERLE D'OR (Dwf. Poly.)**—Exquisite and dainty. Nankeen yellow with a deep orange yellow center. One of the prettiest of small flowered polyantha roses. **Each, 50c**

**PINK DRUSCHKI (H. P.) Heinrich Munch**—Immense globular flower of a beautiful silvery-pink color. On account of its size and color this variety will soon gain the same popularity as the famous white Frau Karl Druschki. **Each, 75c**

**PRINCE CAMILLE DE ROHAN (H. P.)**—Very dark, rich, velvety crimson, passing to intense maroon, shaded black; the best dark variety. **Each, 35c and 50c**

**RAYON D'OR OR GOLDEN RAYS (H. T.)**—A gorgeous new golden-yellow rose superb. **Each, 75c**

**RHEA REID (H. T.)**—Long buds, large flowers; color, a vivid scarlet. **Each, 35c and 50c**

**RICHMOND (H. T.)**—A magnificent, rich scarlet-crimson; ever-blooming rose. **Each, 25c, 35c and 50c**

**SAFRANO (T.)**—Bright apricot yellow, tinged orange; beautiful buds; delicious tea scented. **Each, 35c and 50c**

**SPECIAL**—All rose bushes sent PREPAID this year as we are employing NO AGENTS—see note inside front cover—(Tree roses are not mailable.)

**SUNBURST (H. T.)**—Rich cadmium yellow, shaded orange. The buds are very long and beautiful form, opening into a gorgeous colored flower. **Each, 60c and 75c**

**ULRICH BRUNNER (H. P.)**—Glowing crimson, flamed with scarlet; a good grower and free bloomer. **Each, 25c, 35c and 50c**

**WILLOMORE (H. T.)**—An improvement upon the famous Lyon Rose, more vigorous, stronger stems. Long, elegant buds, coral red suffused with carmine, opening into a large full flower of a rich shrimp pink, shaded to yellow at the center. **Each, \$1.00**

**WHITE MAMAN COCHET (T.)**—White, shaded pink on edges of petals; very beautiful. **Each, 35c and 50c**

**WHITE KILLARNEY**.—Beautiful flowers, elegant buds, delicious fragrance. **Each, 35c and 50c**

**WINNIE DAVIS (H. T.)**—Rich apricot-pink, shaded to flesh. Beautifully formed buds and flowers. **Each, 35c and 50c**

## Standard or Tree Roses

Tree Roses are budded or grafted on hardy rose stocks, about four feet high. They soon make good-sized heads, forming a small tree, especially desirable for planting as single specimens in back grounds or rows along walks or driveways.

Not all varieties are obtainable, but order any color or variety you wish, and we will send it or give you as good a substitute in same color as possible.

Prices, \$1.00 to \$1.50 each, according to size and shape of head. (Cannot be mailed.)

## Weeping Tree Roses

These are produced by budding the trailing varieties on four or five-foot standards. They are very showy and quite a novelty. **Each, \$1.50 to \$2.00 (Cannot be mailed.)**

## Moss Roses

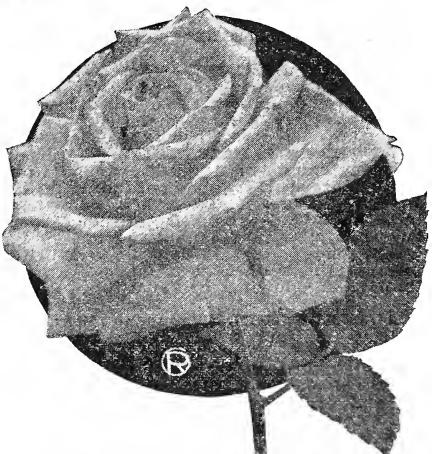
Strong vigorous growers, much admired for moss-covered buds; hardy; most varieties bloom but once in a season, but remain for a long time and very handsome.

Price, 35c each

**Blanch Moreau**.—Best pure white.

**Chapeau de Napoleon**.—Beautiful pink.

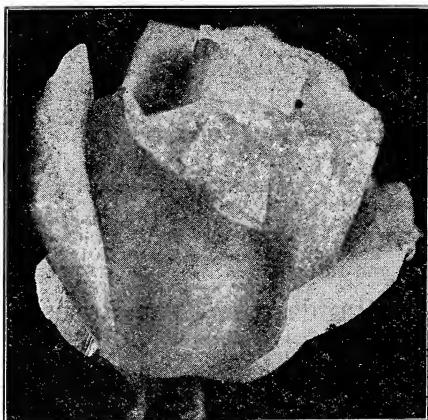
**Eugene Verdier**.—Best Red Moss.



Pink Druschki (Heinrich Munch)

## Climbing Roses. Hardy, Large Flowering

The lavish profusion of bloom on climbing Roses, literally hundreds of flowers on each plant, their beautiful colors and exquisite fragrance render them unequalled for covering houses, arbors, pergolas, fences and boundary walls.



Climbing White Cochet.

**CLIMBING MADAME CAROLINE TEST-OUT.**—Without doubt the finest pink climbing rose to date. Each, 40c and 50c

**CLIMBING KAISERIN.**—Flowers fine ivory white; a grand addition to our list. Each, 40c and 50c

**CLIMBING METEOR.**—Free flowering. Rich, velvety crimson. Each, 40c and 50c

**CLIMBING PAPA GONTIER.**—Splendid cherry-red flowers; strong climbing habit. Each, 50c and 60c

**CLIMBING RICHMOND.**—Very free and vigorous; bright crimson. Each, 60c

**CLIMBING SAFRANO (Reve d'Or).**—A beautiful saffron yellow, very desirable. Each, 35c and 50c

**CLIMBING WHITE COCHET.**—Flowers white, edged pink, beautiful form and substance. Strong grower, perpetual bloomer. Each, 60c

**CLIMBING WOOTTON.**—Bright red, shaded deep crimson; free flowering, strong grower. Each, 35c and 50c

**DR. W. VAN FLEET (Clb.).**—Large semi-double flowers, delicate pink, shaded rose, very pretty. Each, 50c

**GLOIRE DE DIJON (Clb.).**—Large, fragrant yellow flowers shaded amber and carmine; a magnificent climber. Each, 40c and 50c

**MADAM ALFRED CARRIERE (Clb.).**—Extra large, very double and sweet, profuse bloomer, white, tinged pale yellow. Each, 35c and 50c

**MARECHAL NEIL.**—The popular fragrant golden yellow climber, but not as hardy as others. Each, 35c, 50c and 75c

**PILLAR OF GOLD.**—A vigorous climber. Color, rich apricot, shaded with carmine. A rare colored variety and very desirable. Each, 50c

**REINE MARIE HENRIETTE.**—Vigorous; flowers large, full; glowing crimson. Each, 35c and 50c

**SILVER MOON.**—Large, semi-double blooms of good substance with golden stamens. Foliage bronze green and is immune to mildew. Each, 50c

**SHOWER OF GOLD.**—A beautiful new semi-double; golden yellow flowers in masses. Each, 35c and 50c

## RAMBLER OR PILLAR ROSES

The following climbing Roses all grow vigorously, and are profuse bloomers and very hardy anywhere. The flowers are borne in large clusters. They all belong to the polyanthus class, or more commonly known as the Ramblers.

**AMERICAN PILLAR.**—A single-flowering variety of great beauty. Flowers large and a lovely apple blossom pink, white eye and yellow stamens. Each, 35c and 50c

**CRIMSON RAMBLEE.**—See Flower of Fair Field.

**DOROTHY PERKINS.**—(See illustration). Flowers in immense clusters, beautiful shell-pink, very double with petals artistically crinkled; pretty pointed buds.

Each, 25c, 35c and 50c

**FLOWERS OF FAIRFIELD.**—A perpetual flowering "Crimson Rambler." The flowers are bright scarlet and produced in great profusion. Each, 25c, 35c and 50c

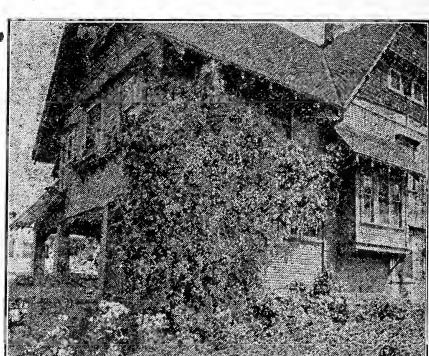
**HIAWATHA.**—Produced in long, pendulous sprays, with frequently from 40 to 50 flowers on a spray; in color it is a brilliant ruby carmine with a clear white eye; golden stamens—a glowing combination of colors. Each, 35c and 40c

**TAUSENDSCHEIN (Thousand Beauties).**—Entirely distinct. The individual flowers are very large, fully 3 inches across, of a most elegant and graceful single. A most delightful shade of soft pink, shaded carmine, and produced in trusses of from 10 to 15 flowers, each truss a veritable bouquet. It is a rampant grower, very healthy with magnificent foliage. Each, 25c, 35c and 50c

**WHITE RAMBLER (Thalia).**—White Dorothy is better.

**WHITE DOROTHY.**—As its name indicates, it is a sport from Dorothy Perkins, possessing all the fine qualities of that grand variety, but having pure snow-white flowers. Each, 35c and 50c

**YELLOW RAMBLER (Aglaia).**—Strong grower, profuse bloomer. Each, 25c, 35c and 50c



Dorothy Perkins, 30 ft. High, Thousands of Blooms.

**DOZEN PRICES.**—We give you our 35c selected two-year-old bushes at \$3.00 doz.; our 40c and 50c extra selected at \$4.00 doz. On high priced kinds multiply the single price by 10 to get the dozen price. We can supply the ordinary grade of 25c bushes at \$2.50 doz.

# DID YOU GET YOUR COPY?

About September 1 we mailed to about 40,000 of our customers our 32-page illustrated and descriptive

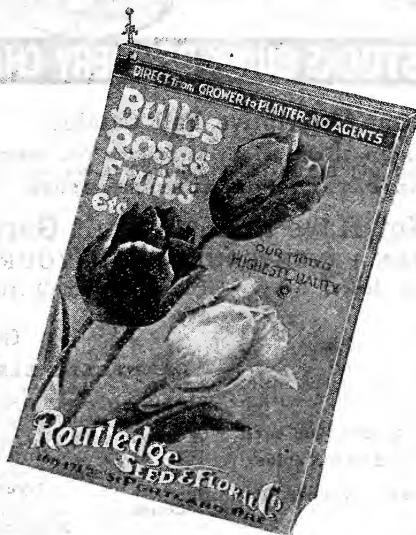
## FALL CATALOGUE OF

"HIGHEST  
QUALITY"

Bulbs  
Roses  
Ornamental  
Shrubs  
Trees  
and  
Evergreens

"HIGHEST  
QUALITY"

Fruit  
and Nut  
Trees  
Berry  
Bushes  
Vines  
Roots, Etc.



If you did not get one or have misplaced it and would like another copy, write us—a request on a postal card will do. We will send copy by return mail.

Space in this catalog will not permit us to describe our Nursery Stock, which makes a large and important part of our business. We would like very much to have you look over our Fall Catalog if interested in this line of stock.

**REMEMBER—WE NO LONGER EMPLOY AGENTS; YOU GET BETTER RESULTS, JUST WHAT YOU WANT, AND SAVE THE AGENT'S COMMISSION.**

## HERE'S SOMETHING WE WANT YOU TO KNOW ABOUT

**DAD'S**  
TRADE MARK  
**ELECTRIC  
LANTERN**

When we find something of special merit we always want our friends and our customers to know about it, ESPECIALLY when it is something that will give PLEASURE, or COMFORT and SERVICE.

DAD'S NEW ELECTRIC LIGHT is something that will be of great service to our city, suburban and country customers. It's an all-around light, lantern or flashlight, in fact, it's "THE LIGHT OF ALL LIGHTS"—makes "NIGHT TIME A BRIGHT TIME."

DAD'S ELECTRIC LANTERNS are made to last and are inexpensive. They take the place of ALL open flame, gas or oil explosive lights for ALL PEOPLE and ALL PURPOSES. They are always ready, quick as a bullet, and silent as night. See page 110, or send for fully illustrated and descriptive folder.

## FRUIT TREES, BUSHES, VINES AND PLANTS



### Our Descriptive Fall Catalog

Limited space in this catalog will not permit us to give full descriptions of all our Fruit, Shade and Ornamental Trees and Shrubs and Vines, but we will gladly mail you a copy of our **DESCRIPTIVE FALL CATALOG OF NURSEY STOCK.** (See page 93.)

### Why Not Have a Small Fruit Garden?

**WHAT'S NICER THAN FRESH FRUIT FROM YOUR OWN GARDEN?**

We will describe a few of our best small fruits.

#### Currants

**PERFECTION.**—New; a late introduction of great merit. Perfection is the largest, most productive, finest-flavored, rich, mild, sub-acid; plenty of pulp; few seeds; healthy, bright red currant to date.

1-year, 15c; 2-year, 20c each

**Cherry, Fays, White Grape or Black Naples.**  
—All well known kinds.

1-year, 10c each; 2-year, 15c

#### Gooseberries

**OREGON CHAMPION.**—Berries large, round and pale green; fine for table use and pies; hardy, strong, and a very prolific bearer; most popular and best commercial variety.

1-year, 8c each; 2-year, 10c

**INDUSTRY.**—English variety; large oval; dark, red, hairy, rich and agreeable; vigorous and productive.

1-year, 25c each; 2-year 30c

#### Grapes

**CAMPBELL'S EARLY.**—Clusters large and handsome; berries large, round, black, with purplish bloom; flesh firm but tender; seeds few; flavor rich, sweet and slightly vinous. A strong and vigorous grower and ripens its fruit early. A fine home variety for all purposes. Fruit keeps a long time in perfection.

1-year, 20c each; 2-year 35c

**Concord.**, well known **Delaware**, the best red variety. **Niagara**, best white; your selection.

1-year, 15c each; 2-year, 20c

#### Raspberries

**ST. REGIS (New).**—The St. Regis everbearing red raspberry is the sensation of the day. It is being talked about from the Atlantic to the Pacific. The demand is enormous. It is a very valuable variety. It originated in New Jersey among a colony of Italians who made money by selling the fruit to hotels and restaurants late in the fall after all other kinds of berries were gone. It is a fine berry in every respect, being hardy, very productive, of good color and fine flavor. It does finely in the regular season and you get the fall crop extra. We unhesitatingly recommend this variety. Price, each, 10c; doz. \$1.00; 100, \$7.50 prepaid

**Cuthbert** and **Marlboro**, well known red varieties, or **Gregg** and **Cumberland**, popular black caps.

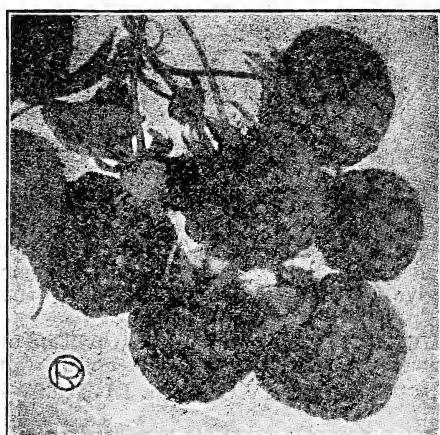
1-year, each, 6c; doz., 60c; 100, \$4.00

#### Blackberries

**ELDORADO.**—New bush variety. Very vigorous and hardy; yield is enormous; berries large, jet black, borne in large clusters, and ripen well together; sweet, melting and pleasing to the taste; no core, and keep well.

Price 1-year, 12c each; extra strong, 15c. **Lawton** or **Blowers**, well known popular sorts. 1-year, 8c each; extra strong, 10c

**Evergreen** or **Himalaya Giant**, trailing sorts, strong plants. 15c each; \$6.00 per 100



Black Cap Raspberries.

**DOZEN PRICES**—For dozen prices on Fruit Stocks multiply the each price by 10. Remember, we pack safely and well and prepay charges to you.

## Plant a Few of These Delicious Berries

~~TRAIL THEM ON THE GARDEN FENCE OR OVER A TRELLIS.~~

**PRICES**—Your Choice of the following, strong transplanted 2 year plants, 15c. each, \$1.50 doz., \$8.00 per 100.  
**TIPS OR 1 YEAR ROOTS GIVE POOR RESULTS—WE DO NOT OFFER THEM.**

### New Mammoth Blackberry

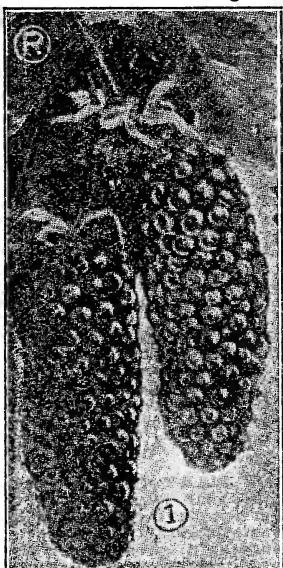
A grand addition to the list of Blackberries. The handsome, large juicy berries are delicious. It is a rampant grower, of trailing habit; enormously productive and early. Fruit is enormous, specimens measuring two and one-half inches long; seeds small, soft and abundant; cores small and soft. In size and flavor it surpasses all other varieties of blackberries. Excellent for home use.

### Burbank's Phenomenal

A most desirable, refreshing berry for the home garden. Of a bright crimson raspberry color; very productive, and most delicious of all berries for pies, canning, jellies or jams. Sweeter than the Loganberry and fine as a fresh table fruit. Prices above.

### Loganberry

In great demand again for canning and drying. An exceedingly strong grower and an enormous bearer. The fruit is larger and longer than the blackberry and produced in immense clusters; color, dark red. Has a pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early. It is excellent for the table, eaten raw or stewed, and for jelly or jam is without an equal. Prices above.



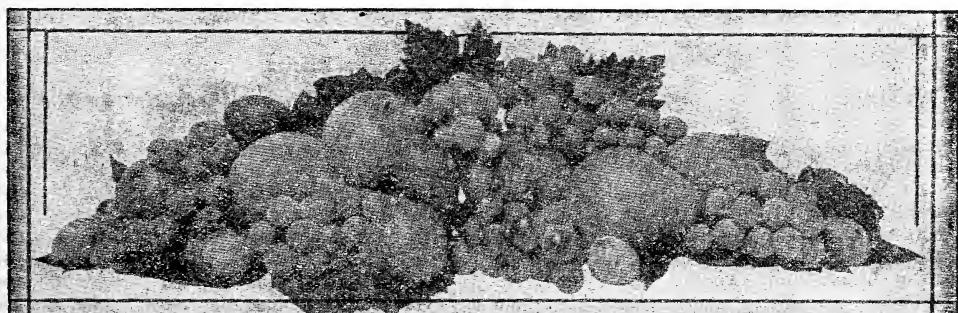
New Mammoth.

### General Price List Fruit and Nut Trees

If you have not time to send for our descriptive catalog of Nursery Stock (see page 93) you can order any varieties of the following. We can no doubt supply them. In case they can not be had locally tell us if we can substitute some good western variety of merit.

KIND	1 Year		2 Year		Selected
	3-4 Feet	4-6 Feet	Branched	2 to 3 Year	
Apples	18c	20c	25c	30c to 40c	
Apricots	25c	30c	35c	40c to 50c	
Cherries	25c	35c	50c	75c to 1.00	
Pears	25c	30c	40c	50c to 75c	
Prunes	20c	25c	35c	40c to 50c	
Peaches	18c	20c	25c	35c to 50c	
Plums	20c	25c	30c	35c to 50c	
Quince	40c		50c	60c to 75c	
Nectarines		40c			
Almonds	50c	60c			
Persimmons	50c	60c			
English Walnuts					
Select Seedlings	40c	60c			
French Grafted		1.00	6-7 ft. 1.25; 7-9 ft. 1.50 to 1.75		

**DOZEN PRICES**—To get the dozen prices on above multiply the single price by 10. Very low prices by the 100 or 1000. Write.



**QUALITY**—We call your attention to the fact that we are catering to the "Particular Planter," who wants "High Quality," and is willing to pay a price necessary to secure it. Any sensible person knows that "Highest Quality" in stock of any kind is more expensive to produce than common, and therefore is worth more. Our prices are low, quality considered.

**STRAINS  
SELECTED**

## STRAWBERRY PLANTS

**NONE  
BETTER**

Our strawberries are carefully grown, trimmed and packed in the best manner to insure their arrival in good, fresh condition. If you want good, strong, healthy, vigorous plants and true to name, send to us. Our prices are right; our plants are O. K.

### Superb-Everbearing

This we believe is the best of the ever-bearing kinds. Superb is a truly wonderful fall bearing variety. It is doubly valuable as it yields heavily, early as well as late. This new Superb is really a true everbearer and gives a good supply of choice, rich, red berries, until stopped by heavy frosts in the fall. This is the first everbearing strawberry that we have found of real merit and of a good flavor and color. Growers who have tested it on this coast are enthusiastic over it. Supply of plants limited this season. Prices, post-paid, doz., 60c; 25, \$1.00; 50, \$1.50; 100, \$2.00.

**GLEN MARY (Early).** Growing more popular year by year. There are few other berries having a wider habitat than this variety, and it has proved profitable and successful wherever planted. A heavy producer of big, dark red beauties, its popularity is not to be wondered at. The berries are inset with bright-yellow and very prominent seeds which give them a beautiful appearance in the box. As a shipper it has no superior. Glen Mary, although a bi-sexual, is not a strong pollinizer and we recommend that it be set with Wm. Belt. (See prices next page.)

**WM. BELT (Early.)** This variety grows big crops of large, red, attractive berries that hang in clusters from powerful stems. The flesh is very rich and meaty and of deep red, which extends to the center. The berries are in every respect "extra fancy," and the fact that it grows, like its famous mate Glen Mary, under practically all conditions, makes it one of the most valuable varieties ever originated. (See prices next page.)

**MAGOON.** Berry large, fine and excellent; sub-acid flavor; bears heavily and throughout the season.

**CLARK'S SEEDLING.** The berry that has made Hood River famous; excellent shipper; berries large, firm and of delicious flavor; vines bear large crops; is especially adapted to Pacific Coast.

**MARSHALL.** One of our best Western varieties and very popular wherever known. In California it has been very extensively planted in recent years, and in Oregon it has the distinction of topping the Portland market in three successive seasons. Marshall is one of the blood-red varieties that never fails to attract the eye and to satisfy the taste. It is deliciously sweet, generously prolific, and is in every way an ideal variety for extensive planting or home garden. Excellent for canning, as it holds its color, shape and flavor. (See prices next page.)

**OREGON IMPROVED.** One of the finest and most satisfactory strawberries ever introduced. It always looks bright, fresh and attractive. The berry is very large firm and handsome; rich, dark red, extending to the center. The flavor is rich sweet and delicious. For table use and canning, it cannot be surpassed. The "Oregon" ripens early and continues in bearing until late in the season. Very prolific and a heavy cropper. (See prices next page.)

**BRANDYWINE (Late—Bi-sexual).** Has been grown for 20 years in the East, and is now being largely planted by Western growers who have tried it out. Its large size, deep rich color and beauty of its fruit, excellent flavor and great productiveness makes it rank among the leaders. The fruit stems grow erect, and hold the berries well up from the ground. The foliage is ample having a dark leathery leaf which affords full protection to the bloom. (See prices next page.)

**GOLD DOLLAR.** One of the earliest berries on the market. Fruit good, medium size, and attractive; rather tart; fine flavor; foliage heavy, large and spreading, which protects the blooms from early frosts.

**WILSON.** A heavy bearer of fine, moderate-sized berries; sharp acid flavor; leading sort for canning.

### New Price List of Strawberry Plants.

Variety.	Charges Prepaid.				Not Prepaid.		
	Per doz.	25	100	1000	25	100	1000
Brandywine .....	\$ .30	\$ .50	\$1.00	\$6.00	\$ .40	\$ .85	\$5.50
Clark's Seedling .....	.25	.40	.75	5.00	.30	.60	4.50
Glen Mary .....	.30	.50	1.00	6.00	.40	.85	5.50
Gold Dollars .....	.25	.40	.75	5.00	.30	.60	4.50
Magoon .....	.25	.40	.75	5.00	.30	.60	4.50
Marshall .....	.25	.40	.75	5.00	.30	.60	4.50
New Oregon (Improved).....	.25	.40	.75	6.00	.30	.75	5.00
Wilson .....	.25	.40	.75	5.00	.30	.60	4.50
Wm. Belt .....	.30	.50	1.00	6.00	.40	.85	5.50

500 plants, all one kind, 10c more per hundred than thousand rate.

All our strawberry plants packed in special strawberry crates holding 500 plants each. Special low prices on 5000 or more. Write, stating quantity and kind wanted.

## A New Strawberry of Great Merit for 1916

The illustration on the back cover of our 1915-16 Nursery Catalog shows a photographic reproduction of our field of growing plants, a mother plant showing productiveness of fruit and life-size berries.

### WELLINGTON'S MARVEL

If there is anything in nature that can cause one to forget the frailties of human existence and make the honest lives of industrious workers worth living, it is the Wellington Marvel Strawberry. The plant has a multiple crown system, which, under restriction, stools up to mammoth proportions and circles itself with a massive wreath of large oviform crimson berries, sparkling like rubies in the sunlight.

When we observe the penetrating power of the Marvel's enormous root growth, we cease to view the festive array of the striking red beauties with astonishment, and think of the persistent toil and painstaking care exercised by the originator for the purpose of eliminating objectionable features and placing on the market an ideal strawberry, absolutely immune from all lopsided, scrubby, defective specimens.

We feel confident that all progressive growers, as well as the amateur, will want to be the first in each locality to grow this grand new strawberry. It will be the first to catch the eye of connoisseurs, who wish to buy. The ruddy glow of the Marvel spreads evenly and leaves no white tips. It is very firm and a peerless shipper; is first class for canning. Heat does not impair its quality, but intensifies the color to deep red. The flavor of the Marvel is distinct and, when once tasted, its ripening season will be looked forward to as the festal event of a lifetime.

The blooms are perfect and are protected from frost by a dense growth of leaves. Fruiting season early, long and marvelously productive.

**WELLINGTON'S "MARVEL"** was originated by Wellington B. Butler, of Merlin, Ore., a strawberry specialist. We have obtained the exclusive sale of all his plants, and take great pleasure in introducing to our customers and all lovers of strawberries this really superb and meritorious new variety. In all our experience and observation, we have never seen the equal of the "Marvel," in color, shape, size and quality. The ripe berries command instant attention on account of the bright, fresh, delightful appearance. We predict a bright future for the "Marvel," and the commercial grower, who gets a start of this variety and markets the fruit, will reap a rich harvest.

**About the Prices.**—Mr. Wellington Butler, the originator, set his price at \$2.50 per dozen, but we finally persuaded him to allow us to sell his plants at \$1.50 per dozen; \$10.00 per 100. At this price, everyone can afford to get a start.

### Price List of Popular and Well-Known Strawberry Plants.

#### Charges Prepaid

Variety	Per 25	100	1000
Brandywine .....	\$ .50	\$1.00	\$6.00
Clark's Seedling .....	.40	.75	5.00
Glen Mary .....	.50	1.00	6.00
Gold Dollar .....	.40	.75	5.00
Magoon .....	.40	.75	5.00
Marshall .....	.40	.75	5.00
New Oregon .....	.40	.75	5.00
Superb Everbearing (Doz. 60c) .....	1.00	2.00	....
Wilson .....	.40	.75	5.00
Wm. Belt .....	.50	1.00	6.00

500 plants, all one kind, 10c more per hundred than thousand rate.

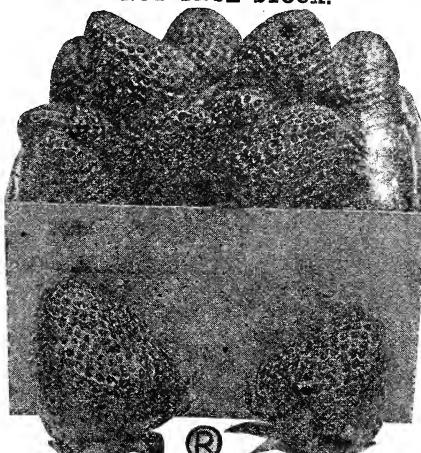
OUR FALL CATALOG of Nursery Stock gives full description of the above varieties —free.



Wellington Marvel in Ordinary drinking glass.

**WELLINGTON'S MARVEL.**—To overestimate the high qualities of this new strawberry would be extremely difficult. As a colossal yielder it has few rivals. It has the power to build a remarkable crown system and to penetrate the soil deeply with an immense growth of roots, making it practically drought resistant. The foliage of the plant is erect, dense and medium dark green, and very healthy. Fruit is uniformly large, a perfect oviform in shape, ripens evenly and perfectly, and in flavor incomparably delicious when fully ripe.

**BEWARE!** To protect our customers, all Wellington Marvel strawberry plants will be marked with a printed wooden label, as follows: Originators Stock Wellington Marvel on one side and our name, Routledge Seed & Floral Co., on the other. Plants not marked thus **ARE NOT TRUE STOCK.**



WELLINGTON "MARVEL" (Quart box.)

## Why Not Raise Some Asparagus and Rhubarb

Every garden large or small should have at least a small supply. If you want special information on culture of these roots, we have **ASPARAGUS CULTURE**, by Hexamer, 174 pages, 60c, and **NEW RHUBARB CULTURE**, by Morse and Fiske, 130 pages, 60c.

### ASPARAGUS ROOTS

One of the earliest and finest of spring vegetables; very easily grown. A bed once planted is good for years if properly attended to and well manured. Set plants 18 inches apart, in rows 3 feet apart.

**ONE YEAR OLD.**—Prepaid, dozen 25c; 50, 75c; 100, \$1.00. By express or freight, 1000, \$6.00.

**TWO YEAR OLD.**—Prepaid, dozen, 40c; 50, \$1.00; 100, \$1.25. By express or freight, 1000, \$8.00.

**Buy Roots and Save 2 to 3 Years.**

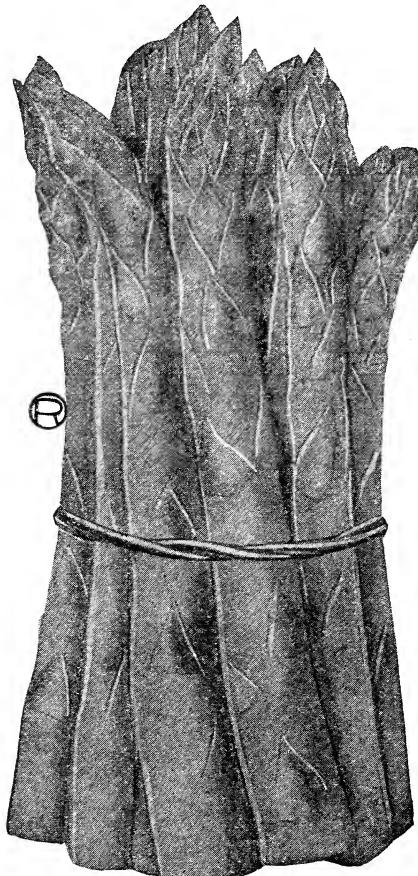
### Hop Roots.

**Regular Root Cuttings**, price, 5c each; 40c per dozen; \$1.20 per 100. Low prices by the thousand.

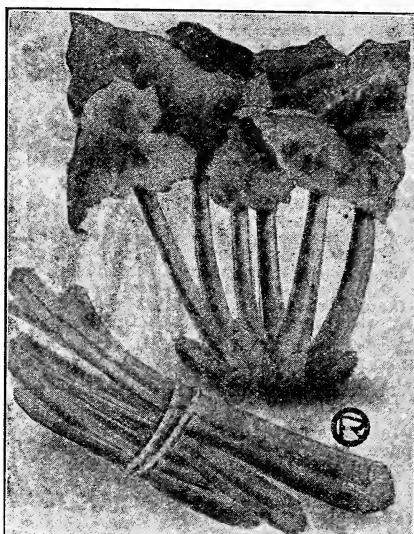
**Crown Roots** give quicker results; each, 10c; dozen, \$1.00.

### Horse-Radish Roots.

Prices, 5c each; 40c per dozen; \$1.50 per 100. Low prices by the 1000.



Asparagus.



Rhubarb.

### RHUBARB

#### PIE PLANT—WINE PLANT

Plant in the fall or early spring from 3 to 4 feet apart, in the richest soil you have, or can prepare. New book: "Rhubarb Culture," a complete guide to dark forcing and field culture (well illustrated), 130 pages, 60c.

#### BANWINE RHUBARB—A Moneymaker

This is a new giant variety, a quick grower, very early, heavy stalks, very tender, brittle, and of finest flavor. Our grower claims it excels Burbank's Giant, Riverside Giant (Cumming's), and is far superior and three times as profitable as the ordinary Giant or Victoria, Linneous and others. Has produced close to \$900.00 profit per acre. We could write a whole page about this grand variety and print letters and testimonials of merit, but space will not permit. (Send for pamphlet if interested.)

**PRICES:** Divided Roots (Buds or Eyes, as they are often called), 15c each, 2 for 25c, 6 for 60c, 12 for \$1.00, postpaid; per 100, \$7.50 prepaid. Quantity price on request.

**Note**—Divided roots from the true mother plant is the only safe way to propagate—seeds do not come true.

#### BURBANK'S CRIMSON WINTER

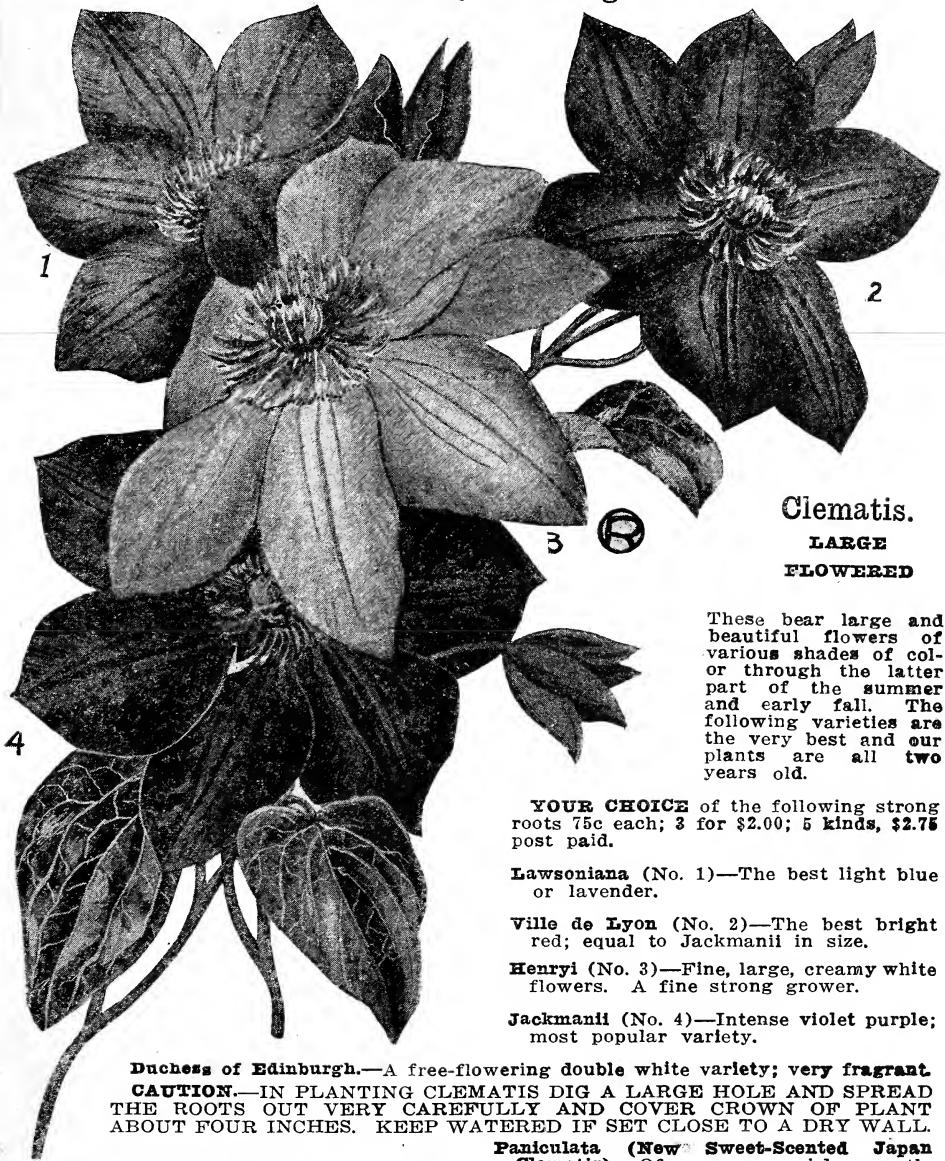
Very early medium size, brilliant crimson and of fine quality. Highly esteemed in California. Prices: Small roots, each 15c, doz., \$1.50; large, 25c, \$2.50 doz., postpaid.

#### VICTORIA OR MAMMOTH

**One Year.**—Each, 10c; doz., 75c; 100, \$4.00.

**Two Year.**—Each, 15c; doz., \$1.25; 100, \$6.00, prepaid. If wanted in larger quantities, write for special prices.

## Beautiful Hardy Climbing Vines.

**Clematis.****LARGE  
FLOWERED**

These bear large and beautiful flowers of various shades of color through the latter part of the summer and early fall. The following varieties are the very best and our plants are all two years old.

**YOUR CHOICE** of the following strong roots 75c each; 3 for \$2.00; 5 kinds, \$2.75 post paid.

**Lawsoniana** (No. 1)—The best light blue or lavender.

**Ville de Lyon** (No. 2)—The best bright red; equal to Jackmanii in size.

**Henryi** (No. 3)—Fine, large, creamy white flowers. A fine strong grower.

**Jackmanii** (No. 4)—Intense violet purple; most popular variety.

**Duchess of Edinburgh.**—A free-flowering double white variety; very fragrant.

**CAUTION.**—IN PLANTING CLEMATIS DIG A LARGE HOLE AND SPREAD THE ROOTS OUT VERY CAREFULLY AND COVER CROWN OF PLANT ABOUT FOUR INCHES. KEEP WATERED IF SET CLOSE TO A DRY WALL.

**CLEMATIS** (*Virgin's Bower*).—No hardy flowering climbing vine excels in beauty and effectiveness the finer sorts of Clematis. As a climber for the veranda, a screen for fences, for pillars along the garden walks, for training on walls or arbors, or in masses on rockwork, it has no rival among strong growing blossoming plants. The Clematis should be grown in rich, deep, sandy loam, and be well mulched with rotten manure in winter. The richest sheets of bloom and largest flowers are obtained where it has partial shade and a liberal supply of water at the roots.

**Paniculata** (*New Sweet-Scented Japan Clematis*).—Of very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy, green foliage. The flowers are of small size, pure white, borne in profusion in September and October, and of a most delicious and penetrating fragrance. Small plants, 25c; strong 2 to 3-year-old plants, 35c to 75c each.

**C. Montana.**—A hardy rapid grower, flowers snow-white, fragrant and freely produced in May and June.

Strong plants, 50c to 75c

**Montana Rubens.**—New, same as above, except in color, which is of a pleasing shade of soft rosy red.

Each, 60c to 75c

**FEED YOUR PLANTS.** You must supply "food," in other words, fertilizer, if you want the best results. Read about "Wonder," page 34, and ask for "Booklet."

## Hardy Climbing Vines—Continued

### AMPELOPHEIS

**Vitichi** (*Boston Ivy, or Japan Ivy*).—The most popular and desirable climbing plant for covering brick, stone or cement walls, etc.; when it becomes established at the root it is of very rapid growth, and clings to the smoothest surface. The foliage is of a rich olive green during the summer, changing to various shades of bright crimson and scarlet in the fall. In planting cut back to within 6 inches of the ground, so that the new growth may cling to the wall from the bottom up.

Strong plants 25c to 35c; extra strong 50c

**Quinquefolia** (*Virginia Creeper, or American Ivy*).—This well-known climber is one of the best and quickest growing varieties for covering trees, trellises, arbors, etc.; its large, deep green foliage assumes brilliant shades of yellow, crimson and scarlet in the fall.

Strong plants 25c to 35c; extra strong 50c

**Engelmanni**.—Very much like the above, but on a rough surface it will cling without support in the same way as the Vitichi.

Strong plants 25c to 35c; extra strong 50c

### IVY

**Common English**.—Thick, leathery, evergreen leaves; strong grower.

Good roots each 15c to 25c

### CLIMBING HYDRANGEA

**Schizophragma**.—This bears large panicles or trusses of flowers, which resemble a white Hydrangea. It clings readily to any rough surface or wall, flowering freely during July and August.

Large imported plants \$1.00 each; pre-paid \$1.35.

### DUTCHMAN'S PIPE (*Aristolochia Sepho*)

A strong, rapid growing vine with handsome some light green leaves. It will give a quick, dense shade and is much used on arbors and trellises. The brown flowers are shaped like the bowl of a pipe. Large plants.

Each 75c to \$1.00

### MONYSUCKLE

A beautiful climber, rapid grower and very desirable; flowers very fragrant, and produced in great profusion. Your choice of the following 35c to 50c each; extra strong 60c to 75c:

**Halleana**.—Very popular; almost evergreen; profuse bloomer; flowers white, passing to yellow.

**Belgica** (*Monthly Fragrant*).—Flowers are large and very fragrant; color red and yellow.

**Semperflorens** (*Scarlet Trumpet Honey-suckle*).—Trumpet-shaped flowers of a bright scarlet.

**Flava** (*Yellow Trumpet*).—A choice but scarce species, with bright yellow flowers.

**JASMINE**  
Graceful, pretty flowers with fine foliage, clean, neat, attractive and hardy.

Each 50c to 60c

### TRUMPET VINE—*Bignonia*

For covering unsightly places, trellises, rockwork, or wherever a showy-flowering vine is desired, the *Bignonias* will be found very useful. The flowers are large, attractive and borne profusely when the plants attain a fair size.

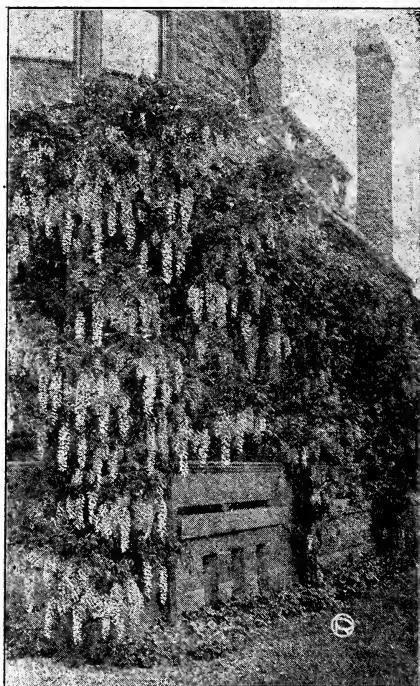
Strong plants each 50c to 75c

### WISTARIA

A rapid, hardy climber that will grow to a height of 50 feet or more. The fine foliage and flowers are produced early in the season, and come in magnificent clusters. One of the most desirable and showy climbers we know of.

**Sinensis**.—Lovely panicles of flowers, produced in the most wonderful profusion. **WHITE OR PURPLE**, strong, 2-year vines, 60c to 75c; extra heavy, \$1.00 to \$1.50 each.

**Multijuga**.—This valuable new Wistaria was introduced from Japan, and produces magnificent racemes of lovely flowers, often measuring 18 to 24 inches in length. **WHITE OR PURPLE**—budded stock from Japan \$1.00 to \$1.50; extra old and strong, \$2.00 to \$2.50.



Wistaria Vine and Flowers.

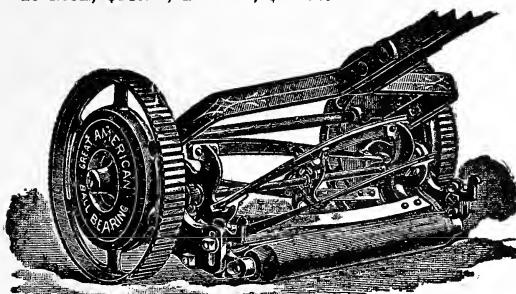
## Shade, Nut and Ornamental Trees and Shrubs

**HARDY FLOWERING SHRUBS**.—There is nothing which so quickly, and for so little cost, adds so much to the beauty, cheerfulness and homelike appearance of a place as an assortment of hardy shrubs. They are permanent improvements, which increase in size, value and beauty year after year. Our illustrated **NURSERY CATALOG** (see page 93) tells all.

## Lawn Mowers

We do not carry a large variety, but we do offer the makes that run easily, wear well and do satisfactory work.

**GREAT AMERICAN BALL-BEARING.**—Open cylinder, five blades, 10-inch wheel, solid cast steel cutting knives, hardened in oil; steel balls of highest grade, placed in dust-proof steel cup; cuts close; easily adjusted. 15-inch, \$10.50; 17-inch, \$12.50; 19-inch, \$13.50; 20-inch, \$15.00.



Great American Lawn Mower.

**GREAT AMERICA.**—Closed cylinder, three blades, 7-inch wheel; hardened and tempered solid cast steel cutting knives, positively self-sharpening. 12-inch, \$7.00; 14-inch, \$8.00; 16-inch, \$9.00; 18-inch, \$10.50.

**FAULTLESS.**—Best cheap lawn mower for money; has 3 blades tempered tool steel; good adjustment, 14-inch, \$3.50; 16-inch \$4.00.

## Grass Catchers

**SIMPLEX.**—Good, cheap grass catcher. Canvas sides, galvanized bottom, wire frame. No. 1 for 14 to 17-inch mower, \$1.50; 18 to 21-inch, \$2.00.

For Grass Hooks, Shears, Sicles, etc., see page 108. For Garden Hose, see page 105.

## Dunham Water-Weight Lawn Rollers

This roller has a water-tight steel drum which can be filled with water to make it heavy, and emptied when storing away.

The roller is fitted with steel roller bearings and is an easy running, long-wearing machine. Ask for booklet—"The Proper Care of Lawns"—free. We carry the following sizes in stock. We will gladly get larger sizes on orders.

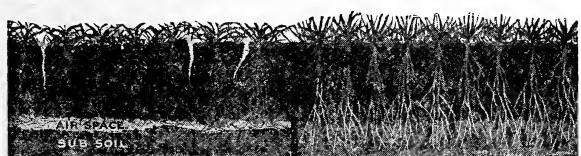
No.	Diam. Inches.	Length Inches.	Sections.	Weight Empty	Filled with Water.	Price
WB 3	14	20	1	65	200	\$10.00
WB 5	18	24	1	80	310	13.00
WB 7	24	24	1	115	500	17.00
WB 11	18	24	2	100	330	18.00
WB 13	24	32	2	160	650	24.00

During Winter Months freezing and thawing and heavy rains loosen the soil and heave the turf away from the sub-soil, leaving millions of sensitive "feeder-roots" exposed to the air. In the spring when the grass should start growing these roots soon dry out and die.

In summer, too, sun and wind tend to dry out, bake and crack the surface soil around the roots and this is equally harmful to the lawn. A good roller will compress the soil around the roots, and press the turf back against the moist sub-soil so the roots can absorb the water and plant food.

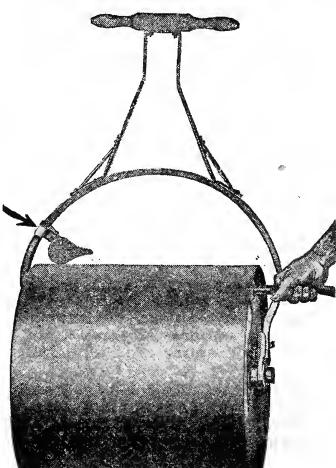
Rolling occasionally throughout the summer (especially after heavy rains) keeps the surface even and prevents the soil drying out. It discourages the work of worms, ants, moles and gives a smooth, even lawn for the mower to run over.

It is absolutely impossible to keep a lawn, large or small, in perfect condition without rolling, no matter how many other things may be done in taking care of it. This fact should be well understood by the large and growing army of Americans who take pride in the beauty of the lawns surrounding their city or country homes.



Before Rolling.

After Rolling.



Dunham Lawn Roller  
(Showing new "No Tip" handle lock and how to fill.)

## SPRAY PUMPS AND SPRAYERS

We can supply nearly twenty different styles, from a light hand pump to the large power-ful power outfit. Hardie Pumps are guaranteed to do the work claimed or your money back. Our experience shows us that if you get a good outfit, one large enough to do your work, you will spray well and as often as necessary; but if you get a cheap outfit or one that is too small, you will become disgusted, throw it aside and let this most important work go undone. Read the bottom line on this page.

### NO. 5 HARDIE BARREL PUMP

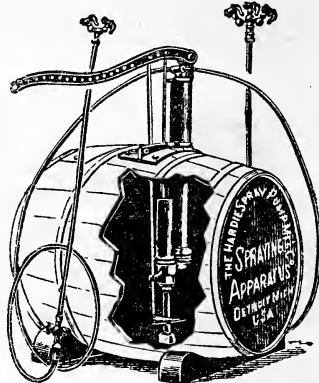
Used in our wheel outfit No. 21 and barrel outfit No. 14; is arranged for two lines of hose; will supply from two to three nozzles; plunger tube is  $1\frac{1}{8}$  inches inside diameter; stroke of plunger, 4 inches; and when operated at 30 strokes per minute will convert into a fine spray 50 gallons of liquid per hour.

Price, with iron air chamber, \$9.50; with brass air chamber, \$11.00.

### NO. 6 HARDIE BARREL PUMP

Fitted for two lines of hose; will supply from four to six nozzles; inside diameter of plunger tube 2 inches; stroke of plunger from  $4\frac{1}{2}$  to 5 inches; when operated at the rate of 30 strokes per minute will convert into a fine spray 120 gallons of liquid per hour. Furnished with flat plates for end of barrel or flat top tank, if so ordered, without extra cost.

Price, with iron air chamber, \$11.00; with brass air chamber, \$14.00.



No. 6 Hardie Mounted.

### OUR SPECIAL OUTFIT NO. 17 $\frac{1}{2}$ .

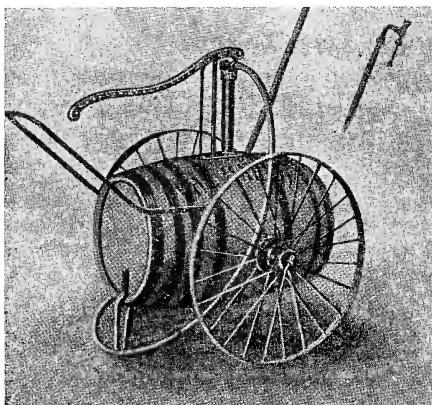
One No. 6 all-brass pump, mounted on barrel, one 15-foot lead best  $\frac{1}{2}$ -inch hose, one 10-foot bamboo extension rod with stopcock and drip guard, one 2-cluster Vermorel nozzle, all complete and ready for work.

Price \$21.00; mounted on barrel, \$25.00; extra lead of hose, extension and nozzle, \$5.00 extra.

### OUR SPECIAL OUTFIT NO. 21—(See cut.)

This outfit is designed to meet the long-felt want by the small fruitgrower and gardener. The 30-gallon barrel is mounted on strong wrought-iron wheels, 26 inches in diameter, with  $1\frac{1}{2}$ -inch tires. No. 5 pump, 5 feet best hose and couplings, 8-foot bamboo rod and leakless stopcock, 1 Vermorel nozzle.

Price \$22.00



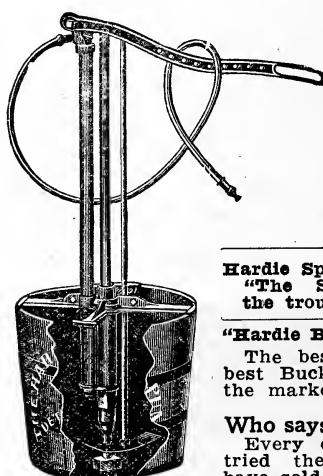
Hardie Wheel Outfit No. 21

### HARDIE BUCKET PUMP.

A high-grade, all-brass bucket pump, especially designed to meet the long-felt want in this line. It is the only bucket pump on the market that has a mechanical agitator and that is so designed as to always stand in position in the center of the bucket. It can readily be detached from the bucket by unscrewing a nut on the spider. This new device for holding the pump firmly in place in the center of the bucket enables the operator to carry the whole outfit with one hand. A practical outfit for light work. This is the only bucket pump in the market that is giving entire satisfaction. Good-sized air chambers enables one to maintain a high pressure and continuous spray.

Price, including No. 4 Pump, one 5-gallon heavy wooden bucket, three feet best  $1\frac{1}{2}$ -inch hose, one spraying lance 18 inches long, one spraying nozzle, \$7.00.

To reach the tops of tall trees, you should order, extra, an extension rod. For price of extension rods, see page 105.



Hardie Spray Pumps—  
"The Sprayer with  
the trouble left out"

**"Hardie Bucket Outfit"**  
The best value and  
best Bucket Pump on  
the market.

### Who says So?

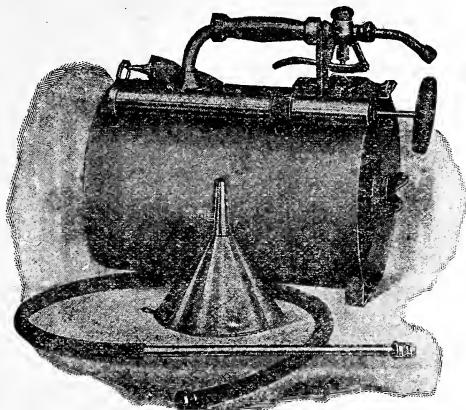
Every one who has tried them; and we have sold hundreds.

**TELL US what amount of spraying you have to do and WE WILL RECOMMEND A RELIABLE OUTFIT, WITH PRICE.**

**LOWELL FOUNTAIN SPRAYER**

The only perfect and satisfactory compressed air sprayer on the market. It's really a pleasure to operate them.

Every city gardener, florist and poultry keeper needs a Lowell Fountain Sprayer; clean and easy to operate; no need to get any spray on your hands or clothes; will last a lifetime with reasonable care. (Try one at our store.)



**Lowell Fountain Compressed Air Sprayer.**

**Exclusive Points** (note the illustration).—It is devoid of complex or intricate parts, both automatic and positive in its action. One charge of air is sufficient to expel entire contents. Always ready, a few strokes of its plunger starts the continuous spray. No slopping or spilling of the spray. The spray discharge is in the form of a dense fog or mist. There is absolutely no drip and therefore no shield or guards are needed.

**Construction.**—The heads after being seamed and riveted are dipped into molten solder, making it absolutely air-tight and the strongest Air-Pressure Sprayer made—standing five times the air pressure necessary to operate.

Note, can be carried by the handle or the shoulder strap and the automatic controlling valve under the handle is easily operated with one finger. You have perfect control of the spray and don't waste any.

**Saves Its Cost.**—This valve and lever will save the cost of the sprayer in making a given amount of solution do so much work. None is wasted. The short crook shown in the cut is used, without the hose when spraying vegetables and small fruits. For reaching the under side of leaves of low bushes, attach the hose and use the vine attachment extension rod. For tree work you can use as many two-foot brass extensions as is necessary to reach the desired height.

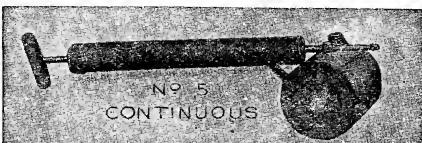
**Price:** (Not prepaid) No. 110, Brass Tank, \$7.50; No. 111, Galvanized Tank, \$5.00. (P. P. 12 lbs.)

**NOTE.**—Can be sent by parcel post, but express is safer.

**EXTRAS**—2-foot brass extension rods, each 75c; vine attachment, a 2-foot extension with bent neck, \$1.00. (P. P. 1 lb.)

**NOTE**—Any little part can be furnished at any time. If wanted, send for catalog showing parts.

**DON'T WAIT** until the fungi, such as mildew, rust, black spot, etc., have attacked your roses and trees; the Bordeaux sprays should always be used in the fall or early in the spring before leaves appear, as a preventive.

**HAND SPRAYERS OF "MERIT"**

**NO. 5. CONTINUOUS.**—Latest and best continuous hand sprayer on the market. As the name implies, is so constructed that it not only sprays on the downward stroke of plunger, but also when it is drawn back, thus causing a continuous, mist-like spray, enabling one to spray three times as fast and with one-third the labor. Positive in its action and practically indestructible. Length 20 inches; capacity, one quart. (P. P. weight, 2 lbs.) Each: tin, 75c; galvanized, \$1.00; brass, \$1.50. (Add postage.)



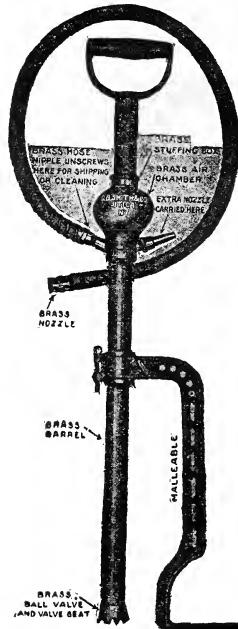
**NO. 7 PERFECT.**—Capacity, one quart. The special arrangement of the spraying tube is such that it thoroughly breaks up or atomizes all oils and solutions into a fine mist-like spray which penetrates all cracks and crevices. Adapted for all kinds of general spraying and is used very extensively for spraying disinfectants, etc. Length 20 inches. (P. P. weight, 2 lbs.) Each, 50c.



**NO. 6 PERFECT.**—Practically the same as No. 7, except the reservoir is put on crossways. Preferred by some. (P. P. weight, 2 lbs.) Each, 50c.



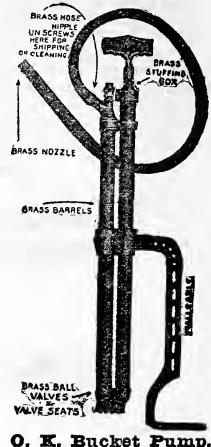
**NO. 3 GLASS TANK.**—Well constructed, the glass reservoir which is a quart Mason jar is not affected by any kind of spray. You can have several jars of different sprays (already prepared) and when you wish to change, take out one and put in another. No delay. Extra long air chamber, special plunger and throws a strong, fine spray in any direction. (P. P. 3 lbs.) Each, (not prepaid), \$1.00



**NEW NO. 32 BUCKET PUMP.**—Made entirely of brass. Has bulb shaped air chamber at top of cylinder, which is also made of brass, and causes the Pump to be operated with ease, and discharge a continuous steady spray. Furnished with three feet of heavy best quality rubber hose, (detachable), three nozzles, one fine and one coarse, for spraying; also a fire nozzle for fire protection. This Pump will throw a solid stream fifty feet. Often used for washing wagons, windows, etc.

Price, all complete, \$3.50. (P. P. 7 lbs.)

**O. K. BRASS BUCKET PUMP.**—(See cut.)—Constructed entirely of brass. It is furnished with three feet of best quality rubber hose, detachable; malleable iron stirrup, three interchangeable brass nozzles which throw a continuous fine mist, coarse spray or a solid stream. Pump is provided with large air chamber, with brass ball valves and valve seats. Neat in appearance as well as durable in construction. Much superior to pumps of this class offered heretofore. Look at illustration carefully. (P. P. 7 lbs.) Price \$2.75



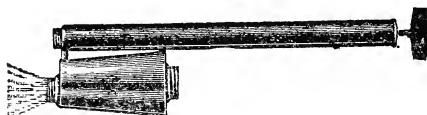
O. K. Bucket Pump.

## Powder Sprayers, Blowers and Dusters

These are used for applying Sulphur, Bug Death, Dry Bordeaux or insect powder of any kind.

**NO. 32 Bucket Pump.**

**LOWELL POWDER GUN** (See cut.)—Heavy tin. Finished in aluminum. We give a positive guarantee with each sprayer that it is impossible to draw powder back into the cylinder pump, and if the powder is sifted through a screen and kept absolutely dry it will not clog and throw a fine cloud of powder. The powder can holds one quart. (P. P. 2½ lbs.) Price 90c



Lowell Powder Gun.

**DEFENDER.**  
10c; postpaid 15c



**JUMBO.**  
Larger, Better.  
25c; postpaid 30c



**DICKEY BUG DEATH DUSTER.**—For using when applying Lime, Dust or Powder of any kind. For use on small gardens this is very handy. Saves powder, puts it on evenly and just where you want it. (P. P. ¾ lb.)

Each 35c



**ACRE AN HOUR DUSTER OR SIFTER.**—Bucket shaped, straight sides, made of heavy tin, good handle, holds 5 lbs. powder. A simple twist of the wrist does the work. As its name implies, you can cover an acre of plants an hour. (P. P. 2 lbs.)

Each 85c

## SPRAY AND GARDEN HOSE

**XXX GRADE (Non-Kinkable).**—Guaranteed. This hose gives excellent satisfaction. Good enough for any ordinary spraying outfit, and by far the best hose for florists' or gardeners' use. One customer reports that he used a 50-foot length of this grade for 3 seasons continuously, which proves that it is the cheapest hose to buy. We have this on 500-foot reels, and cut any length wanted.

Price, ¼ in. 15c; ⅜ in. 18c

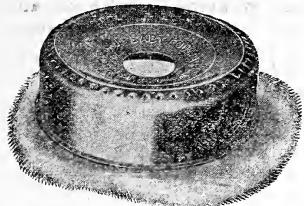
**SPECIAL SPRAY HOSE.**—The highest grade extra heavy spray hose made; guaranteed. Price, ½ in. only, 20c ft.

**TROUT COTTON HOSE.**—Makes an excellent garden hose for those preferring cotton on account of lightness. Made of 4-ply canvas with a good, thick, rubber lining. Price in 50-ft. lengths only, coupled.

½ in. \$4.50; ¾ in. \$5.50

We offer new stock only of high-grade hose for spray pumps and garden purposes. We advise our customers to buy the best. It is cheapest in the end. Don't buy old stock.

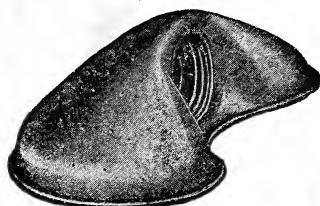
## NOZZLES, SPRINKLERS, RODS, EXTRAS, ETC.



Fountain Sprinkler.



Mist Nozzle.



Half Circle Fountain.

**LAWN SPRINKLER**

Don't wast time holding the hose nozzle—use lawn sprinklers, and change positions as often as necessary.

**Pluvius Lawn Sprinkler** (see cut below) (P. P. 4 lbs.) Each \$1.35

**Monarch or Midget**—Same style as above, only lower. (P. P. 2½ lbs.) Each \$1.15

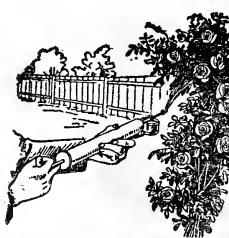
**Busy Lawn Sprinkler** (see cut below).—Very desirable for medium sized yards. (P. P. 3 lbs.) Each \$1.00

**Fountain Sprinkler** (See cut).—All brass. Small 75c, postpaid 85c; large \$1.00, postpaid \$1.10.

**Half Circle** (See cut).—All brass, sprays half circle. Each 50c, postpaid 60c

**Little Wonder** (see cut No. 37).—Excellent in small yards. Covers 20 feet. (P. P. 1 lb.) Each 40c

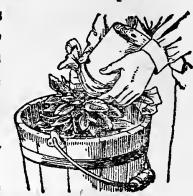
## SPRAYS, INSECTICIDES, ETC.



The best and most economical method of spraying is with an automatic sprayer, which forces the liquid out under air pressure, producing a very fine spray or mist and enables one to spray the top as well as the underside of the leaves, where the insects are always found, this being the most tender part of the plant to feed upon.

### Using a Hand Sprayer prepared bath.

**DIPPING OF POTTED PLANTS.**—Place a cloth over the top of pot to keep in the earth and then invert and immerse the plant in the



Dipping a Plant  
in a Pail of Spray

**ARSENATE OF LEAD (Paste Form).**—For spraying trees and shrubs against the attacks of leaf-biting or leaf-eating insects of all kinds, such as green worms, slugs, etc., that appear on plants, shrubs or trees. Especially valuable for spraying to prevent the codding moth on Apple and Pear, and should be used just before the calyx cups close, for eating insects, whenever they appear. It comes in paste form and is diluted in water at the rate of about 1 oz. to a gallon of water. Full directions on each package. (Not mailable.)

Price, 1 lb. jar, 25c; 2 lb. 45c; 5 lbs. \$1.00;  
10 lbs. \$1.90

**S-W DRY POWDERED ARSENATE OF LEAD.**—Claimed by those who have tested it to be better in many ways than the paste. Easier to mix and requires much less. Use 1 lb. to fifty gallons. This is mailable.

Price, 1 lb. 40c; 2 lbs. 75c; 5 lbs. \$1.75; 10 lbs. \$3.00; postage extra. Quantity price on request.

### BORDEAUX

Very effectual in preventing and checking all fungous diseases, such as blight, black spot, rust and mildew, on trees and shrubs, and scab on Apples and Pears.

**QUICK BORDEAUX MATERIAL ("Target Brand," powder form).**—The best Bordeaux on the market. All ready to mix with water at the rate of 1 pound to 10 gallons of water for winter; use 1 to 20 for summer. It is an excellent idea to sprinkle this powder under small bushes to prevent mildew.

Per lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.00 (mailable.)

### BORDEAUX MIXTURE—(Liquid)

Directions.—Winter strength 1 to 50, summer or when leaves are on the bushes 1 to 100.

Price, Qt. 80c; gal. \$1.25 (Not mailable)

**BLACK LEAF "40."**—A concentrated solution of nicotine sulphate containing 40 per cent nicotine. Indorsed by the foremost experts of the U. S. for curl leaf, green and wooly aphids, trips, plant lice, codling moth, pear psylla and all leaf-eating insects. Descriptive pamphlet on request.

Prices—1 oz. can 25c, postpaid 30c; ½ lb. can 75c (P. P. 1 lb.), makes 47 gals. spray; 2 lb. can, \$2.50, makes 240 gals. spray; 10 lb. can, \$10.75, makes 1000 gals. spray. (1 oz. and ½ lb. cans only, mailable.)

Note—Whale oil soap mixed in this solution makes it more lasting, as it sticks better. Use 4 lbs. to 50 gals. solution.

Full and detailed instructions with each can.

**WEED KILLER ("Target Brand").**—Guaranteed to destroy weeds, grass, poison ivy and all undesirable vegetation. Keeps roadways and paths free from weeds. Cleans tennis courts and ball diamonds. Cleans alleyways and fence corners. An effective combination of high grade chemicals which diluted in water at 1 to 50 destroys the roots as well as the tops of all vegetation. One gallon diluted will cover 100 to 150 square yards; and one or two applications are sufficient for an entire season. (Not mailable.)

Price: Pt. 40c; qt. 60c; gal. \$1.25; 5-gal. \$6.00. Write for price per barrel.

**LILLY'S SOLUBLE SULPHUR COMPOUND**  
This is the famous Niagara Sulphur Spray in dry form, now manufactured on the Pacific Coast under label "Lilly's." Successfully used three years. No sediment, no crystallization, no heavy barrel to handle. Dissolves readily in cold water. Always ready for instant use. Used the same way and for the same purpose as Lime-Sulphur Solution. It should be used on all fruit trees and shrubs in spring as a scale control and general clean up, later for Scab and Fungus. Use at the rate of 10 pounds to 50 gallons of water for winter or spring spray. This is the cheapest and best spray.

Descriptive 4 page pamphlet free.

100 lb. drum, f. o. b. Portland.....	\$7.50
10 lb. can (P. P. weight 12 lbs.).....	1.25
1 lb. can (P. P. weight 1 ½ lbs.)....	.20

Full directions with each can.

**LIME AND SULPHUR SOLUTION.**—Known and used everywhere. Is one of the best sprays for San Jose scale. Our liquid is properly prepared and all ready to mix just as you get it. Add 8 gallons of water to each gallon of the Lime and Sulphur Solution. Beware of cheap mixtures. We offer only "Highest Quality." (Not mailable.)

Price: Qt. 25c; gal. 50c; 5 gal. \$1.75; 10 gal. \$3.50. Write for price per barrel.

**SCALE DESTROYER ("Target Brand").**—An oil spray of decided merit for San Jose scale. Has many advantages over Lime and Sulphur Solution. Being a soluble oil spray it spreads more readily, getting into every little crevice. Will go twice as far, making it as cheap. Has no bad odor and does not discolor foliage, and is much easier and more agreeable to apply. Now used very extensively in the East. Use one gallon to 20 of water, after the leaves are off and up to time buds appear. For summer spray use one gallon to 100 gallons of water. (Not mailable.)

Price: Pt. 25c; qt. 35c; gal. \$1.00; 5 gals. \$3.75; 10 gals. \$7.50. Write for price per barrel.

**SULPHO-TOBACCO SOAP**

For spraying or sponging or dipping ferns, palms or potted plants, or spraying roses, shrubs, trees or vines it is invaluable.

**Kills Aphis, Red Spider, Plant Lice and Sucking Insects.** Acts quickly and effectively against these pests, at the same time it is a fertilizer and revives plant life. Will not injure the tenderest plant.

Two ounces of soap make a gallon of solution. Non-poisonous, perfectly safe and yet very efficient.

**Price:** Postpaid, 3 oz. bar 15c; 8 oz. bar 25c.

**ROSE NICOTINE**

An effective and concentrated spray material to be diluted with water and applied as a spray or bath as directed.

For Lice, Aphis, etc., on plants, flies or lice on animals, bed bugs etc. When diluted Rose Nicotine is colorless odorless and stainless.

**Price:** 25c can, prepaid 30c; 50c can, prepaid 60c; pt can, \$1.60, prepaid \$1.75. Full directions on each can.



**BUG DEATH (Non-poisonous).**—A most effective powder that kills the squash, cucumber and cabbage bugs, currant worm and all bugs and worms that eat the leaves of plants and vines. Bug Death is a wonderful protection against insects. Absolutely non-injurious. Contains no arsenic. Kills the bugs, prevents blight, revives and aids the healthy growth of plants and

shrubs. Does the work as nothing else will. You can't afford to be without it. Bug Death is generally applied dry, but is very effective mixed with water and sprayed. Use 1 pound to 2 gallons water.

**Price:** 1 lb. cans with perforated shaker tops, 25c; 3 lbs. 50c; 5 lbs. 75c; 10 lbs. \$1.25; 25 lbs. at 12c lb.; 100 lb. kegs, \$10.00. Add postage.

Send for pamphlet, "Bug Death," which gives full information.

**BLUE LABEL SLUG DESTROYER.**—This is the first powder of its kind that we ever found to positively kill slugs and keeps them away from young plants. Full directions on each package.

**Price.** 1 1/2 lb. pkg. 25c. (P. P. 2 lbs.)

**POTASSIUM SULPHIDE.**—(Liver of Sulphur). One of the best preventives of mildew on roses and berry bushes. Dissolve 1/2 ounce in one gallon of hot water. When cold apply as a spray.

**Price:** 1 oz. 10c; 4 oz. 25c; 1 lb. can, 60c

**GRAFTING WAX.** 1/4-lb. 10c; 1 lb. 35c

**WHALE OIL SOAP.**—For aphis, plant lice, etc. Best grade.

1 lb. 10c; 10 lbs. 85c; 100 lbs market price

**SULPHUR POWDER.**

Lb. 10c; 100 lbs. market price

**SULPHUR CANDLES.**

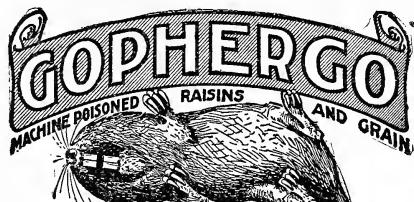
Each 10c postpaid 15c; 3 for 35c

**TO-BAK-INE**

The strongest and most highly refined nicotine product offered for spraying, vaporizing and fumigation in Green Houses. Our Florists like TO-BAK-INE better than other similar preparations such as Nicoticide, Nico-Fume, etc., because it is safe and less expensive.

**To-Bak-Ine Liquid** for spraying or vaporizing. 1/4 pint, 75c; 1/2 pint, \$1.35; 1 pint, \$2.50; gal. \$17.50 (not mailable).

**To-Bak-Ine Fumigating Paper.**—Quick, safe and effective. Price, per can of 24 sheets: \$1.00; 6 cans (144 sheets) \$4.50, mailable; weight per can 1 1/4 lbs. (Add postage.)



**SURE DEATH TO  
GOPHERS, SQUIRRELS, PRAIRIE DOGS,  
RABBITS, RATS AND MICE.**

No more use for traps. Guaranteed to do the work or your money back.

The only prepared poison that will get a gopher. The government advises poisoning as the most effective and best method of exterminating ground pests. Gophergo is a combination that never fails. They are sure to get it, they like it and they eat it. Gophergo has been tested and endorsed by many state experiment stations. If farmers and gardeners would carry a small can of Gophergo when walking around their places and leave a few pellets where "signs" are discovered the pests will soon disappear. Full directions on each can.

**Price:** 10 oz. can 25c; 1 1/2 lb. can 50c; 3 1/2 lb. can \$1.00. (Add postage.)

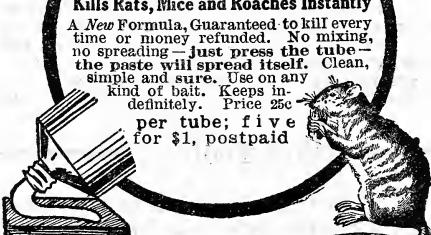
**TOBACCO DUST.**—Valuable as an insecticide and fertilizer. Better as a mulch than the stems. **Lb. 10c; 10 lbs. 75c**

**RatBis-Kit Paste**

The new poison in the tube

Kills Rats, Mice and Roaches Instantly

A New Formula. Guaranteed to kill every time or money refunded. No mixing, no spreading—just press the tube—the paste will spread itself. Clean, simple and sure. Use on any kind of bait. Keeps indefinitely. Price 25c per tube; five for \$1, postpaid



## Miscellaneous Tools That Every Gardener Needs

We give the P. P. (Parcel Post) weights so you can add postage if wanted by mail. Don't forget to send it extra.

### DANDY-LION WEED KILLER

A new, simple, yet practical tool that is automatic, quick and sure in its work. Cutting or pulling off the tops of weeds only makes the roots grow more vigorously; digging them out with a knife gives one the backache or lame knees, therefore use the "Dandy-Lion" same as a cane.

You simply fill it with solution (of gasoline, salt or vitriol, directions tell how) put the point on the root crown of the weed press a little, swing the top around in circular movement to open a hole and press down until the cross bar on the point (see cut) releases the fluid. The solution kills the root and all.

The amount of solution deposited can be regulated. Spring, valve and base removable. **PRICE, NO. 1, Brass Covered, \$1.00; NO. 2, Solid Brass, \$1.50.** P. P. Weight 3 lbs. (Add postage.)

### "ALCA" GARDEN TOOL

Best all-around garden tool made. This remarkable combination tool is a trowel, fork, hoe, weeder and dibble—all in one. A spring releases the particular tool you desire. Light but strong and handles nicely. (15 inches long—see cut). **Price 50c, postpaid 60c**

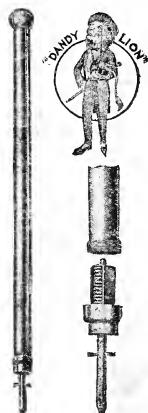
WEEDERS		
(See Illustration)		Each
<b>2—EXCELSIOR.</b> —Five claws (P. P. $\frac{1}{2}$ lb.)		\$0.15
<b>3—LANGS.</b> —Very handy (P. P. $\frac{1}{2}$ lb.)		.20c
<b>4—DIAMOND.</b> —Very popular (P. P. $\frac{1}{2}$ lb.)		.20c
<b>5—FORK.</b> —Fine for digging (P. P. $\frac{1}{2}$ lb.)		.15c

GRASS SHEARS		
(See Illustration)		Each
<b>6—B B A.</b> — $6\frac{1}{2}$ -inch; high grade; best on the market (P. P. $1\frac{1}{4}$ lbs.)		\$1.00
<b>7—5<math>\frac{1}{2}</math>-inch blade.</b> —good value (P. P. 1 lb.)		.40c

TROWELS		
(See Illustration)		Each
9	—6-inch steel blade (P. P. 1 lb.)	.35c
10	—Very strong all steel; 6-inch (P. P. 1 lb.)	.50c
11	—Same grade as No. 10 but has a 5-inch blade (P. P. 1 lb.)	.40c
12	—Best low-priced; 6-inch blade (P. P. 1 lb.)	.15c
13	— <b>MAYNARD.</b> —6-inch steel blade and shank; highest grade made. (P. P. 1 lb.)	.60c

## Other Tools

**REMEMBER**—We keep in stock a large assortment of PRUNING SHEARS, SAWS AND KNIVES, BUDDING AND GRAFTING KNIVES, BRANCH SHEARS, GARDEN FORKS, RAKES, SPADES, HOES, ETC. Our illustrated and priced pamphlet on request.

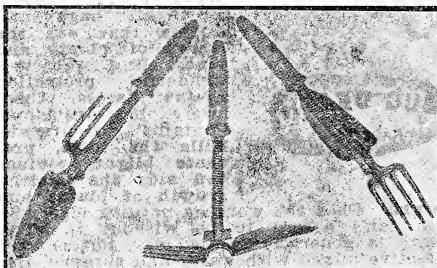
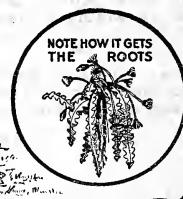


### HALL DANDELION PULLER

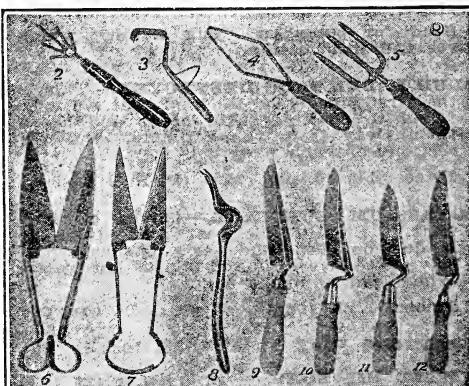
Here is a tool that gets the dandelion roots and all, and operator stands up. No wet knees or aching back. Just push the blade down in the ground close to the weed, press towards the weed and pull up. A patent hook near point of blade does the trick. A slot prevents dirt from clogging the hook. Is made of polished steel and will last a lifetime. Handle 30 inches long, steel part 8 inches (See cut). **Price 50c. (P. P. 1 lb.)**



At work with a Hall Dandelion Puller.  
Easy on the back and really a pleasure.



"Alca" Garden Tool



## Garden or Rose Stakes

**CEDAR.**—Round; painted green, white top; last and look well. Per doz., 3 ft. 75c; 3½ ft. 80c; 4 ft. 85c; 5 ft. \$1.25; 6 ft. \$1.75; 8 ft. \$2.25.

**BAMBOO.**—Inexpensive and very desirable for pole beans, etc., or flowering plants or shrubs.

**NOTE.**—State for what purpose you want them, as we have them from pencil thickness ( $\frac{1}{4}$ -inch) up to  $\frac{1}{2}$  inch.

Price per dozen: 1½ ft. 10c; 2-ft. 15c; 3-ft. 20c; 4-ft. 25c; 5-ft. 30c; 6-ft. 50c; 8-ft. 75c. Write for low price by the 100 or 1000.



## Sprinklers

**SPRINKLING CANS.**—Regular style; strong and well made.

4 qt. 30c; 6 qt. 40c; 8 qt. 50c; 10 qt. 60c; 12 qt. 75c.

**ENGLISH.**—Imported, for florists, price on request.

## Labels

The tree and pot labels we offer below are strictly No. 1 labels, smooth and well wired. The painted labels are "really painted," not dipped in oil. Ordinary lead pencil writing on the painted labels is always readable; it don't wash off.

### TREE LABELS. (P. P. 4 lbs.)

	25	100	M	
Painted, copper wired ..	\$0.15	\$0.25	\$1.50	
Unpainted, iron wired ..	.10	.15	1.25	
Aluminum, copper wired ..	.60	2.00		

### POT AND GARDEN LABELS

	25	100	M	
Painted, 4-in. (P. P. 3½ lbs.)	.10	.20	\$1.25	
Painted, 5-in. (P. P. 4½ lbs.)	.15	.25	1.50	
Painted, 6-in. (P. P. 5 lbs.)	.15	.30	2.00	
Painted, 8-in. (P. P. 1½ per C.)	.20	.50	5.00	
Painted, 10-in. (P. P. 2 lbs. C.)	.25	.75	6.00	

## Hall's E-Z Garden Cultivator

Just the right size and the right price for the average garden maker. Everyone who makes much garden should have one, as it reduces the labor one-half. Makes gardening a pleasure.

A combination tool for all kinds of garden work. Does away with the tiresome hand hoeing, weeding, etc.

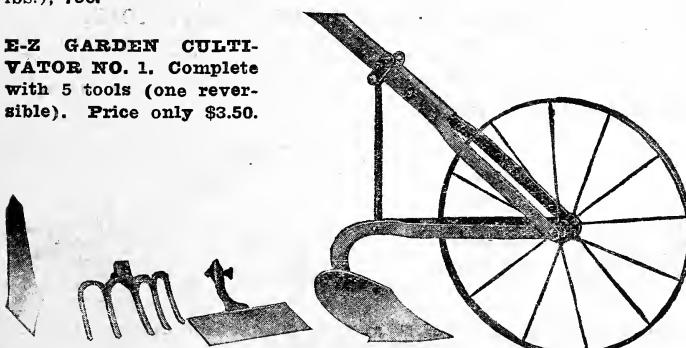
Equipment consists of a Plow, a Rake for harrowing, a Weeder, a Diamond Point or Bull Tongue, for cultivating between narrow rows.

The patent spring device as shown in cut between the handle and tool is an exclusive feature of the Hall Cultivator. It causes the tool to run even and steady without jar on the arms.

The handle can be adjusted to correct height for a child or tallest man. Power is applied direct to axle, making it easy running. Sixteen-inch wheel. Note the narrow, compact build of this tool, enabling one to use it between narrow rows and close up to the plants. Can be taken apart and sent by parcel post. (P. P. weight packed 14 lbs.) Price, complete, \$3.50.

**EXTRAS.**—3 Prong Cultivator attachment, (P. P. 1¼ lbs.), 50c; 5 Prong, (P. P. 1½ lbs.), 75c.

**E-Z GARDEN CULTIVATOR NO. 1.** Complete with 5 tools (one reversible). Price only \$3.50.



With a Garden Cultivator you can cultivate your whole garden in the time it would take you to hoe a few rows.

## Standard Pots, Etc.

Prices by express or freight. Not mailable.

Fig. 1—Fern Dish Filler; 2—Bulb Pan;

3—Azalia or Fern Pot; 4—Flower Pot. All styles same prices.

Prices		Saucers	
	Each.	Doz.	Each.
2-inch	\$0.02	\$0.20	...
3-inch	.03	.30	...
4-inch	.04	.40	\$0.02½
5-inch	.06	.60	.02½
6-inch	.10	.90	.05
7-inch	.12	1.20	.07½
8-inch	.16	1.75	.10
9-inch	.25	2.50	.15
10-inch	.40	...	.20
12-inch	.60	...	.35
15-inch	1.50	...	.50

Should you wish a few small sizes by mail, write for prices packed.

## FLORISTS' SUPPLIES

**GLAZING POINTS (P. P. 1½ lbs.)** Per M. 75c

**MASTICA.** Per gal. \$1.50

**MASTICA MACHINES.** Each \$1.50

**MOSS.** Lb. 5c; 100 lbs. \$3.00

**PUTTY BULBS (P. P. 12 oz.)** Each \$1.00

**TIN FOIL.** Lb. 20c; 10 lbs. \$1.50

**RAFFIA.** Lb. 25c; 10 lbs. \$2.00

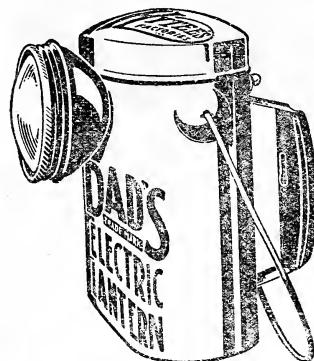
**WIRE HANGING BASKETS (Not mailable).**

6-in. 15c; 8-in. 20c; 10-in. 25c; 12-in. 35c; 14-in. 50c.

## Cahoon Broadcast Seeder

The standard broadcast seed sower, made of steel, iron and brass, will last a lifetime. Has force feed. Every farmer should have one, as it sows perfectly any kind of seed or grain. Full instructions with each machine. Price \$3.50

**Safety First  
Cheaper than Oil**



## DAD'S ELECTRIC LANTERN.

The Light  
of All Lights

These are a little out of our line, but of great merit and of such value to the majority of our customers that we have decided to stock them.

**Dad's Electric Lantern** is a full-sized search-light lantern. It stands  $7\frac{1}{2}$  inches tall,  $5\frac{1}{4}$  inches wide,  $2\frac{3}{4}$  inches thick, excluding the projecting bail, headlight and handle. It's the most wonderful light ever invented for all general purposes. It's in a class entirely by itself and should not be confused with flash-lights or so-called electric lanterns using one cell.

The dry cell container, or body, is so constructed that there is no possible chance for prematurely "run-down" cells, short circuits, etc.

**Dad's Electric Lantern** uses two ordinary standard 6-inch dry cells (or batteries), obtainable from us by parcel post or any Electric, Hardware or Gun Store, or any General Merchandise Store in any city or small village.

**THE LIGHT OF ALL LIGHTS—WIND, RAIN AND WEATHER PROOF**

### No. 1 General Purpose.

### THE LIGHT FOR A THOUSAND USES

**DAD'S GENERAL PURPOSE PORTABLE LANTERN**  
(See cut)—A wide angle real light, that you can work by, in the barn, woodshed, cellar, garage, house, sick room, etc., etc. Light is turned on or off in a second—no matches to scratch or danger from fire. If placed to one side of a living room or work shop, it will light brilliantly the three walls and floor. Can be set down or carried by the ball or handle on the back. Ideal for Hunters, Fishermen, Campers and Travelers.

Can be fastened to any vehicle or motor by using one of Dad's Adjustable Holder Brackets.

**SPECIAL VEHICLE LANTERN** (See Cut)—Excellent for use on Bicycles, Buggies, Motorcycles, Wagons, Boats or Automobiles, easily and quickly attached. The regular Diffusing Reflector will throw an even, bright light over a wide circle and for a great distance, while the Search Light Reflector throws a powerful, illuminating, brilliant light 300 feet or more.

Send for descriptive circular giving full illustrations and information.

### Price List of Dad's Electric Lanterns and Extras

Dad's No. 1 General Purpose Lantern, without dry cells \$2.00 (mailing weight  $2\frac{1}{2}$  lbs.); complete with 2 dry cells \$2.85 (mailing weight 7 lbs.)—add postage if wanted by parcel post. (Get dry cells at your store and save postage.)

Dad's Special Vehicle Lantern, Style No. 14, is  $\frac{1}{2}$  lb. heavier and costs 50c more than Dad's No. 1.

Dad's Adjustable Holder Bracket, Style 40, for holding No. 1 Lantern on Vehicles, etc., \$1.00 (weight  $2\frac{3}{4}$  lbs.)—add postage if wanted by parcel post.

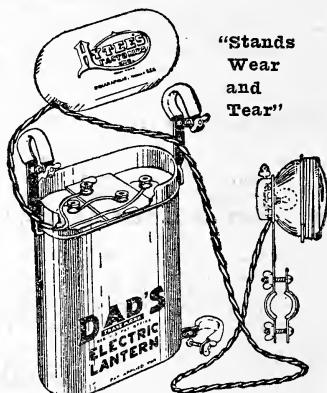
Extra Search-Light Reflectors each 50c, postpaid 60c.

Extra Lens (White or Red), each 25c, postpaid 30c.

Extra Electric Tungsten Bulb, each 30c, postpaid 35c.

Dry Cell Batteries (weight  $2\frac{1}{2}$  lbs.), 35c to 50c each.

Descriptive Pamphlet giving full information and illustrations on request.



Dad's Vehicle Lanterns.

No Chimneys to Clean.

No Dangerous Matches.

No Explosive Gasoline.

No Greasy Kerosene.

No Ill-Smelling Carbide.

No Disagreeable Odors.

No Dirty Black Wicks.

No Heat and Smoke.

No Trouble & Attention.

No Soot, Grease, Grime.

No Globes that Break.

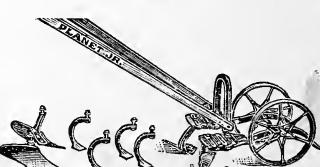
No Empty Oil Lanterns.

## Planet Jr. Hand and Horse Seeders and Cultivators.

Now used and recognized the world over as the most practical, best constructed and most useful time, labor and money saving implements on the market today. Every gardener large or small should investigate the latest models, which are priced very low. Space in this catalog will not permit us to tell you all about these tools, but we will gladly send Planet Jr. 64-page 1916 Catalog and Price List free on request.

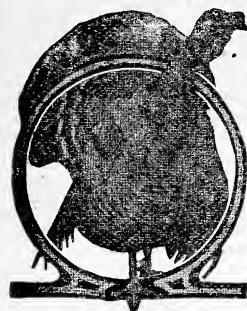


TIME  
LABOR  
AND  
MONEY  
SAVERS



Combined Hill and Drill Seeders from \$8.25 Single and Double Wheel Cultivators from \$4.25 to \$10.00.

REMEMBER—A request on post card will bring the handsome Planet Jr. illustrated, descriptive and priced catalog.



# Routledge Seed & Floral Co's UP TO DATE "HIGHEST QUALITY" POULTRY SUPPLIES

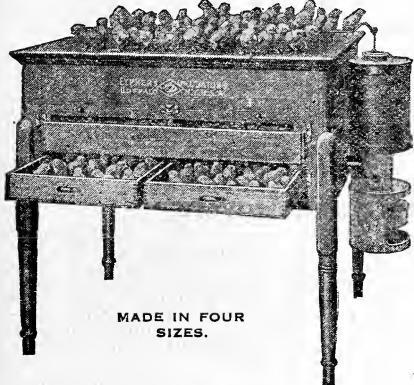
We are devoting the following pages of this catalog to incubators, brooders, poultry supplies of all kinds, poultry food, remedies and insecticides, etc., and are offering you what we believe to be the best line of poultry supplies in the West. We have practically everything needed and used in the profitable rearing and keeping of poultry.

**OUR MOTTO,** "Quality first—price as low as we can make it," will be strictly adhered to in this department, as well as in our other stocks.

## WE ARE AUTHORIZED AGENTS FOR CYPHERS COMPANY INCUBATORS

### MADE IN THREE STYLES—EIGHT DIFFERENT SIZES

For the season of 1916 we offer our customers the Cyphers Incubator Company's complete line of Incubators. These three styles of high-class, guaranteed hatching machines, running through eight different sizes, represent all that is efficient, convenient and reliable in incubator construction. In buying a Cyphers Company incubator you take no chance.



MADE IN FOUR SIZES.

No. 2 Cyphers 244 Egg Size.

STRONGER, HEALTHIER and more VIGOROUS chicks and ducklings than any other Incubator ever built. This is the CYPHERS guaranty!

**CYPHER'S INCUBATORS** are built to hatch and to last. With proper care—the same care you would give a valuable piece of household furniture—a Standard Cyphers will last an ordinary lifetime. They are guaranteed by us to last ten years without repairs. We make this guarantee because they have lasted much longer than this—and are still doing first-class work.

These are machines that for nineteen years have been recognized as the "standard hatchers of the world." Tens upon tens of thousands of them have been sold and are in successful use in every civilized coun-

**READ THIS:** For 5 years we have sold Cypher's Incubators and Brooders and have had no complaints. Every buyer has been fully satisfied as far as we know. This is a record that could not have been made with any other line. **WE KNOW**—"We've been there"—the writer having sold in his 20 years' experience on this Coast every well known make.

### Standard Cypher's Incubators

The CYPHERS' INCUBATOR is known as the "business incubator of the age." It has WON ITS WAY in all parts of the world because it gives the BEST RESULTS. It is used on more Government Agricultural Experiment Stations, on more Large Practical Poultry Plants, on more successful Egg Farms, and by more prominent Poultry Fanciers than all other makes combined. It hatches a LARGER PERCENTAGE of the eggs entrusted to it, and produces LARGER,

try on the globe. They are the last word to date in incubator building, not a penny being spared anywhere in their construction to make sure of their doing satisfactory work in all climes, under widely different conditions, in the hands of all sorts of people.

### PRICES AND SIZES

Built in four popular sizes and at prices as follows: 70 eggs, price complete, \$16.50; 140 eggs, price complete, \$24.50; 244 eggs, price complete, \$36.50; 390-400 eggs, price complete, \$42.50. Satisfaction, or your money back.

**FREE IF INTERESTED**—If you want to know more about Cyphers Incubators and Brooders we will gladly mail copy of Cyphers 1916 Catalog free.

## CYPHER'S COMPANY INCUBATORS—Con't.



Cypher's Columbia.

### Columbia Hot Air Incubators

Are built to meet the widespread demand for large capacity, lamp-heated machines that can be sold at surprisingly low prices and yet be guaranteed to do high-class work. Have wooden cases, attractively finished in dark green, with brass trimmings and double walls. Seamless-bottom lamp bowls, best quality brass burners, zinc and steel Standard Cypher's toggle-joint thermostat and same regulating equipment as used on highest priced machines. Fume-proof, forced draft heater, asbestos covered and metal banded. Automatic in ventilation and embodies diffusive principle. Roomy chick nursery under egg trays.

### PRICES AND SIZES

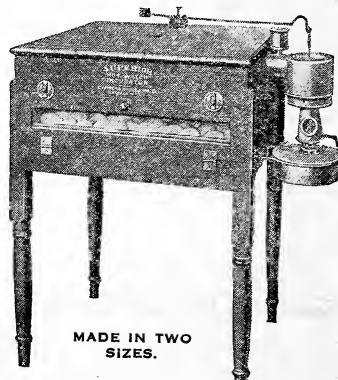
Are made in two sizes: 140 EGGS, price complete, \$17.50; 250 EGGS, price complete, \$24.00. Fully guaranteed.

### Superior Hot Water Incubators

These machines are exactly what the name says. They are heated by hot water, instead of with hot air, and are "superior" in every detail. The water boiler and tank (tubular) are of heavy-weight copper. Lamp has seamless bowl; burner is best on market. Incubator case is of wood, attractively finished in golden brown, with brass trimmings (hinges, buttons, etc.) and has double walls, with air space insulation. Are equipped with Standard Cypher's zinc and steel toggle-joint thermostat and knife-edge regulator. Have forced water circulation and are automatic in ventilation. Roomy chick nurseries.

### PRICES AND SIZES

Are built in two sizes: 65 EGGS, price complete, \$12.75; 130 EGGS, price complete, \$17.50. Fully guaranteed.



Cypher's Superior.

### Cypher's Electric Incubators and Hovers

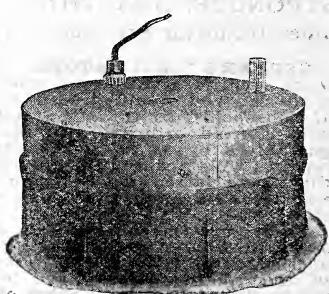


**CYPHER'S ELECTROBATOR.** Made in two sizes, finely finished, quarter sawed oak cases. No. 1 Electrobator, capacity 60 hen eggs, price \$19.00. NO. 2 ELECTROBATOR, capacity 120 hen eggs, price \$25.50.

**CYPHER'S ELECTROHOVER.** Is both portable and adaptable. Can be used anywhere, just as shown in picture, provided the room temperature does not go below freezing. In colder temperature—and to save waste of heat—should be enclosed or encased. Is electrically-heated, noncombustible, self-regulating and bears the Fire Underwriters' "Inspected Brooder" label as a separate device. Capacity 75 newly hatched chicks. Price \$12.00.

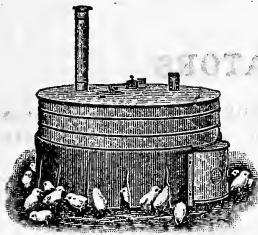
The use of electricity in hatching and brooding has several advantages over the usual methods. Convenience in operation and saving in labor are important items, while absence of fumes and gases allows of locating the apparatus wherever most convenient. Regulation is simple and accurate, and is electrically controlled. Heat distribution by this method is very uniform.

The use of both the Electrobator and Electrohover is very simple and easy. Poultry keepers will find the help of electricity reliable, economical and extra convenient.



Electrohover.

**GIVES ALL THE DETAILS.**—Cypher's 1916 fully illustrated and descriptive catalog free on request.



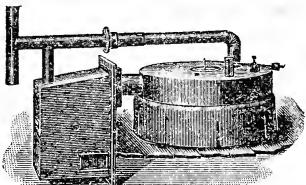
## Cypher's Portable Hover

The Cypher's Portable Hover is self-regulating and self-ventilating and one of the best brooding devices of the kind on the market. As it is equipped with the same high-grade thermostat as the Cypher's Incubators and the Cypher's Adaptable Hover, it maintains a steady and uniform heat. It is positively and infallibly automatic in ventilation, preventing the trapping of "dead" air or poisonous gases underneath the curtain. A continuous supply of fresh, warmed air is automatically forced beneath the hover.

This Portable Hover is very convenient for cleaning and moving. Rated capacity, 75 newly hatched chicks, or 50 chicks that are ten days to six weeks old. Price \$10.00.

## Cypher's Adaptable Hover

This hover is used in all Standard Cypher's Brooders, but is also complete in itself and is intended to be used separately in brooding houses, colony coops, portable houses and in home-made brood coops. Is self-regulating, self-ventilating and bears the Underwriters' Inspected Brooder Label. Capacity, 75 newly hatched chicks. Price \$10.00.



## Standard Cypher's Brooders

The Standard Cypher's Brooders are fire-proofed and insurable, and are the most durable, convenient and efficient brooders thus far invented. They are equipped with Cypher's Adaptable Hover, which is Self-ventilating and Self-regulating—you can therefore depend upon an even, steady temperature in the hover, and a lively, thrifty, growing lot of chicks.

### STYLE B OUTDOOR BROODER.

The best "Foster Mother" made and sold at any price and thousands are in use. (See cut.)

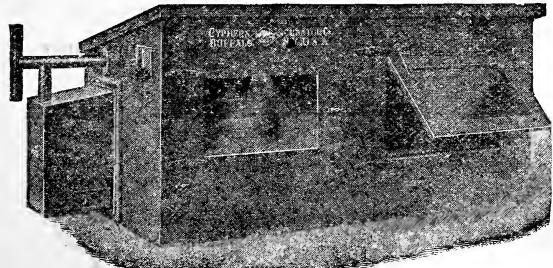
**Dimensions.**—Floor space, 32x62 inches; height, 32 inches in front, 24 inches in rear. Capacity (normal), one hundred newly-hatched chicks; can accommodate one hundred and fifty chicks. Price \$20.00.

### STYLE "A" OUTDOOR BROODER.

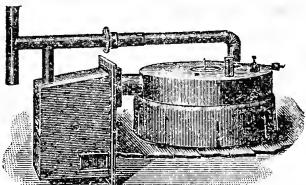
One of the best sellers on account of the lower price. Same size, design and construction as the first section (left end half) of Style "B." Anyone who is handy with tools can build and join on another apartment for a "feeding and exercising room" to be used when the weather is bad. Capacity, 100 baby chicks. Price, \$16.00.

### STYLE "D" INDOOR BROODER.

This is the same in all respects as the Style A outdoor type, except that the upper half is more convenient in shape and construction for indoor use. Size, about 3 ft. square. Can be used anywhere, just so it is under a roof. Price, \$15.00.



Cypher's Style "B" Three Compartment  
1916 Outdoor Brooder.



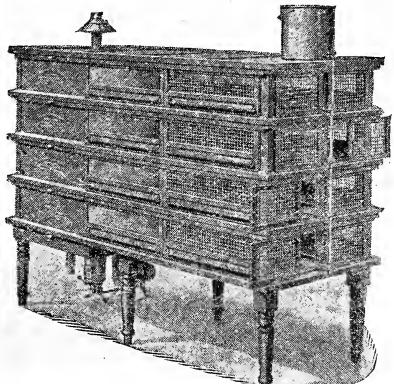
## The Paradise Brooder

The best indoor brooding device for newly hatched chicks and ducklings. Complete brooder has four sections, each section holding two separate flocks of 50 chicks. Total capacity, 400 chicks. Means for feeding and caring for chicks are very convenient and chicks are always under control of the operator. One large oil heater provides warmth. Chicks have proper heat, light, ventilation, fresh water and room for exercise. (See illustration.)

Price, Base Section, \$27.50. Additional sections (can be added as desired), each \$18.00.

## Coal Burning Colony Hover

The latest development in the brooding of chicks. Will brood from 300 to 1,000 chicks in one flock. Descriptive pamphlet on request.



Four Section Paradise Brooder.

## BUCKEYE HOT WATER INCUBATORS

It is no longer a wonderful feat to build an incubator that will hatch some chickens from some eggs, but the truly successful incubator must hatch a chicken from every hatchable egg.

### OLD STYLE

**BUCKEYE HOT WATER SELF-REGULATING INCUBATORS.**—One of the best hot water incubators on the market. We have sold them for the last 4 years with great success.

For twenty-two years Buckeye Incubators have been sold with a guarantee to hatch every hatchable egg.

The Buckeye is so simple that a boy or girl can operate it. That's the secret of its wonderful success.

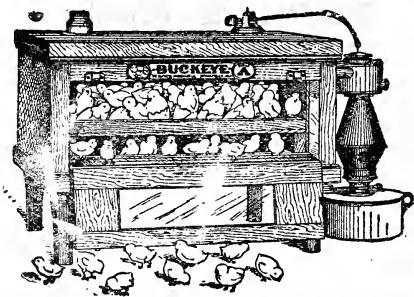
### TO CLOSE OUT

**BARGAINS.**—We have only a few of the following models that we offer very low; bought before the raise in metal and change in style. Order quick—they will not last long.

Style A (short legs, see cut) 60 eggs.. \$10.00

Style C (short legs) 50-egg..... 7.50

No. 4 (tall legs, old style), 350-egg... 32.50

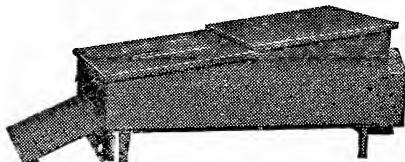


Style A, (short legs) 60-Egg Buckeye.

**BUCKEYE HOT WATER, SELF-REGULATING BROODERS.**—Well made and properly constructed. Equipped with automatic heat regulator and overhead hot water tank. **Outdoor Styles, Nos. 2 and 4,** will operate outside in any kind of weather. (See cut.) **Indoor Styles, Nos. 1 and 3,** should be kept under cover. (See cut.)

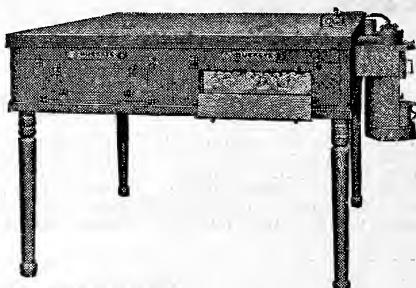
### CUT PRICES FOR 1916

No. 1.	50 chick, size 20x20 inches....	\$ 6.00
No. 2.	50 chick, size 20x44 inches....	8.50
No. 3.	100 chick, size 26x26 inches....	7.50
No. 4.	100 chick, size 26x52 inches....	11.00



Buckeye Style No. 2 and No. 4 Outdoor, 2 Compartment Self-Regulating Brooder.

### NEW STYLE



600-Egg Standard Buckeye.

### Late 1916 Model Buckeye

These guaranteed incubators are built and equipped with every desirable device, to add to their duration, efficiency and safety.

The 1916 Model Standard Buckeye Incubator

### GUARANTEED

#### "To Hatch Every Hatchable Egg"

They are so simple they can't go wrong. The most wonderful hatching device in the world.

### SOLD ON FORTY DAYS' TRIAL.

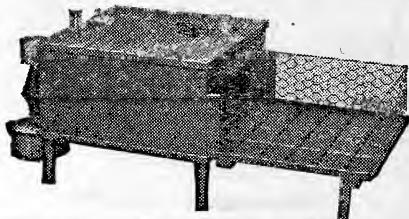
Made in six sizes, from 60 egg to 600 eggs and priced more moderately than any other first class incubator.

### NOTE THESE LOW PRICES.

Number	Capacity	Price
No. 15 Style H	60 Hen Eggs.....	\$11.00
No. 60 Standard	60 Hen Eggs.....	14.50
No. 1 Standard	110 Hen Eggs.....	19.00
No. 2 Standard	175 Hen Eggs.....	24.75
No. 3 Standard	250 Hen Eggs.....	31.50
No. 4 Standard	350 Hen Eggs.....	37.00
No. 5 Standard	600 Hen Eggs.....	55.00

**NOW**—If you are interested in these new model, guaranteed hatcher, won't you drop up a postal asking for complete 1916 **Buckeye Catalog**, nicely illustrated and gives full information and reports.

**REMEMBER**—We are so sure of these new models that they are sold on **40 Days' Trial** and You are the Judge.



Buckeye Style, No. 1 and No. 3 Indoor Self-Regulating Brooder.

**Keep your Hens LAYING.** Use a **BUCKEYE OUTFIT** to **HATCH AND BROOD** your chicks; save time, worry and trouble.

## INTERNATIONAL SANITARY HOVER

A successful, economical brooding device. Note the illustrations showing parts and general construction, the simplicity and perfection. We highly recommend it after thorough testing the last three seasons. Baby chicks will leave any other hover to go under this one, they "take to it" like "sweet sixteen to candy."

**INTERNATIONAL HOVERS** are as practical for the small backyard poultry raiser as for large poultry plants. They are usable anywhere, ready for business wherever placed. All that is necessary is to place the Hover where you want it and light the lamp, no cutting of holes or building of platforms; no kneeling in mud and dust to get at the lamp.

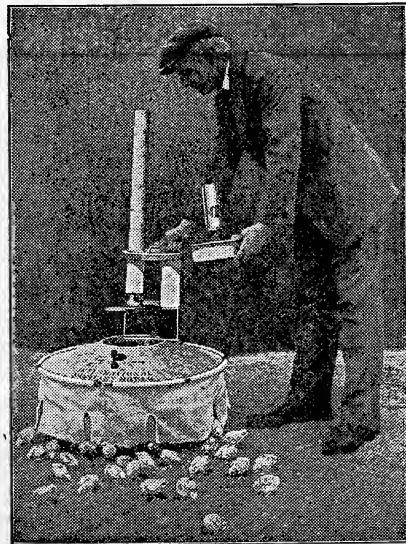
### Special Feature.

**IT IS THE WARMEST NEAR THE CURTAIN.**—This causes chicks to distribute themselves around the edge of the curtain, where they have plenty of room and fresh air as well as warmth. No deaths by crowding of the chicks to the center.

**IT IS ESPECIALLY SUITABLE** for use in colony or brooder houses; but it can be used with equally good results in a hen house, tent, barn, stable, piano box, or even a dry goods box. It can be picked up and carried around with ease.

The International Sanitary Hover provides 200 square inches more of hovering space than any other. Gases and fumes from the lamp cannot get under the hover.

This hover is constructed of heavy galvanized iron and is sanitary, vermin and fire-proof. Will last a life time, and give perfect brooding service every day of that time. It is only necessary to lift the thermometer to ascertain the temperature under the hover.

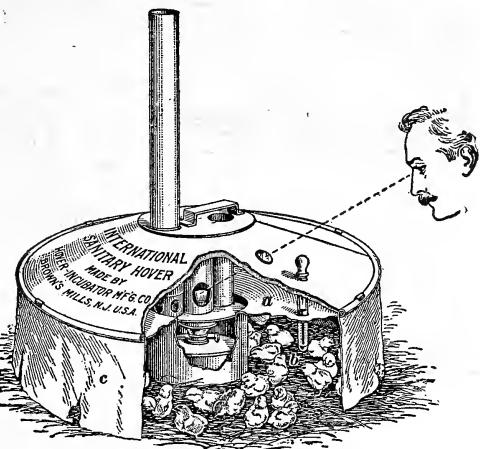


To get at the lamp, just lift it out. To move the hover, just pick it up. To set up the hover, just set it down.

The Sanitary Hover raises more chicks and less trouble than any other hover on earth. Read the following:

### International Mammoth

Built on same principle, excepting the blue flame oil burner. No coal to buy or bother with. Descriptive folder on request. Capacity 300 to 500 chicks. Price, \$30.00.



**BEST BY TEST.**—Many tell us that they raise 94, 96, 98 and some even 100 per cent of the baby chicks put under this hover. It has many advantages that the old hen does not have, always warm and ready to "brood" the chicks; "no lice or big feet."

The air is kept wholesome by diffusion through the cloth curtain. There are no drafts under the hover. It hovers 100 chicks and has enough ventilation for 2400 (weight 33 lbs.). Not mailable.

**Portland price, complete, \$10.00 each.**

### Reports

*Newport, Ore., April 4, 1915.*  
**Routledge Seed & Floral Co.**

Gentlemen: The International Sanitary Hover that I got from you proves that this make is certainly a dandy. I put 93 chicks in it and have only lost two, and one of those was a cripple. They will be five weeks old tomorrow and are a fine, healthy lot of chicks.

Yours truly,  
W. G. EMERY.

*Box 88, Dallas, Ore., April 8, 1915.*  
**Routledge Seed & Floral Co.**

Gentlemen: I wish to state that the International Sanitary Hover I received is fine and gives ideal results. Have not lost a chick yet.

Yours truly,  
**SAMUEL J. GIBSON.**

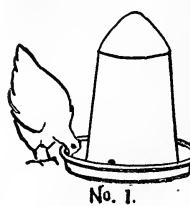
*Estacada, Ore., Sept. 30, 1915.*  
**Routledge Seed & Floral Co.**

Gentlemen: So far as I know, I was the first man in Oregon to use the International Sanitary Hover, having bought two direct from the factory early in 1912, before I knew of an agency in Oregon. These have done very satisfactorily for me and, after having tested and tried the "International" for four years, I can safely say that it is the only hover or brooder that I have ever seen that will beat the old hen at her own game—raising chicks.

Yours very truly,  
**EDWARD SHEARER,**

## Up-to-Date Sanitary Drinking Fountains and Feeders

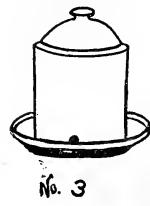
Increase your profits by saving the chicks. Start now by ordering sanitary, economical, up-to-date Fountains and Feeders.



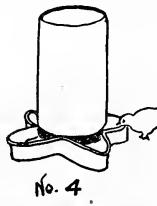
No. 1.



No. 2



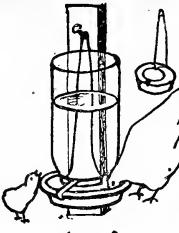
No. 3



No. 4



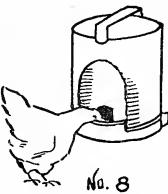
No. 5



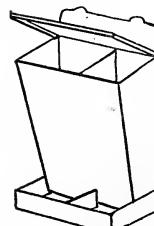
No. 6



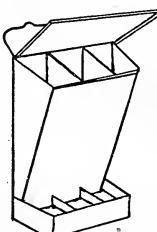
No. 7



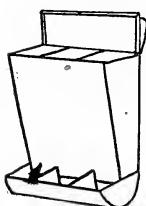
No. 8



No. 9



No. 10



No. 11



No. 12

Note.—When wanted by parcel post add postage at weight given. See page 1 for rate table.

### NO. 1. CONE TOP FOUNTAINS

Most desirable, new style, pressed, galvanized. On account of "cone shaped top" (see cut) birds cannot roost on them.

Capacity	P. P. Wt.	Each	Doz.
1 qt.	1 lb.	25c	\$2.50
2 qt.	1 1/4 lb.	35c	3.50
4 qt.	2 lb.	45c	4.50

### NO. 2. CYPHER'S DRINKING FOUNTAINS

Pressed out of heavy galvanized iron; will last for years. Easy to clean inside and out. (See cut.)

Capacity	P. P. Wt.	Each	Doz.
1 qt.	1 lb.	25c	\$2.50
2 qt.	1 1/4 lb.	35c	3.50
3 qt.	2 lb.	40c	4.00

### NO. 3. SANITARY STONE FOUNTAINS

An old and popular style that keeps the water cool; see cut. (Not mailable.) Price, 1 qt. 25c, 2 qt. 35c, 4 qt. 50c, 8 qt. 90c.

### NO. 4. STAR JAR FOUNTAIN

Very desirable style—chicks can't get wet. Any Mason jar fits it. Price (without jars), each 20c; doz. \$2.25, prepaid.

### NO. 5. PERFECTION FOUNTAIN

This consists of a shallow 6-inch pan and a collar to fit any size Mason jar. You fill the jar, screw on the collar, slip the pan in and turn it over. Simple, sanitary and perfect for small chicks. The best in this style. Price (without jar) 20c each, \$2.25 per doz., prepaid.

### NO. 6. "ALL-RITE" FOUNTAIN-FEEDER

(See cut.) Hangs up out of the litter. It feeds water, mixed chick feed, etc. It is easy to fill; simply snap out the pan, fill the jar, slip the pan in again and invert; no need of removing the jar from the wire holder. Made to hold the old zinc-top Mason pint, quart or two-quart jar. Use small jars for baby chicks, large for adults. Price (without jars), each 15c; doz. \$1.50 postpaid.

### WALL FOUNTAINS

Very desirable for adult fowls; hang up on the wall out of litter and dirt; made of heavy galvanized iron.

No. 7. Cypher's Style. Price, each, 1 gal. (P. P. 3 lbs.) 50c; 2 gal. (P. P. 3 1/2 lbs.) 75c.

No. 8. Moes Style. Opening pressed in. 1/2 gal. (P. P. 2 lbs.) 40c each; 1 gal. (P. P. 3 lbs.) 50c; 2 gal. (P. P. 3 1/2 lbs.) 75c.

### GALVANIZED FEEDERS

For Shell-Grit, Sea-Pro-Co, Dry Mash, Charcoal, Beef Scraps, Etc.

Made of galvanized iron; soon pay for themselves in preventing waste. Sanitary, closed top self feeders for granulated bone, beef scraps, grit, shells, charcoal, dry mash, etc. If these necessary foods are kept before your fowls they will eat just what their systems require for profitable results; in other words, properly balance their rations. (See cut.) Should be hung up out of the litter.

**NO. 10. CYPHERS.**—Three compartments holding 2 qts. each (P. P. 3 1/2 lbs.) Each 60c; doz. \$6.00

**NO. 10. NATIONAL.**—Same style, little smaller; three compartments, 3 pts. each (P. P. 3 lbs.) Each 50c; doz. \$5.00

**NO. 11. MOE'S.**—Extra strong and well made; the feed trough at bottom is round; 4 section, 2 qts. each (P. P. 5 lbs.) Each 85c; doz. \$8.50. 3 section, 2 qts. each (P. P. 4 lbs.) Each 60c; doz. \$6.00.

**NO. 9. Large**—two compartments, one 6 qt. and one 3 qt. (P. P. 4 lbs.), each 75c. Small—two compartments, 2 and 4 qts (P. P. 3 lbs.) each 50c.

### NO. 12. MOE'S CHICK SERVER

Practical and a great saver of feed. Chicks can not get into it. For water or feed. Small (P. P. weight 2 lbs.) each 25c; large (P. P. weight 3 lbs.) each 35c

### FOOD AND WATER CUPS

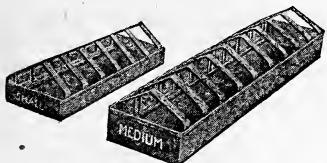
Made of galvanized iron, strong and durable; wire hangers; hold half pint. For exhibition or shipping coops.

Each 15c; doz. \$1.50 (P. P. doz. 4 lbs.)

## FOOD AND WATER HOLDERS

**For Poultry and Ducks of All Ages.**—They are especially recommended for use in feeding mashes of any kind; steam'd or dry alfalfa or sprouted grain. This protected receptacle saves 15 to 25 per cent in food-stuff. The guard lifts out of the pan, making them easy to clean. There is nothing to get out of order. Made of heavy galvanized iron; safe, sanitary, saving and serviceable.

	Size	P. P. Wt.	Price
Small .....	4x10 in.	1 1/4 lbs.	40c each
Medium .....	5x18 in.	2 1/4 lbs.	60c each
Large .....	6x24 in.	3 1/2 lbs.	85c each



Food and Water Holders.

## BOSTON DRY FOOD HOPPERS

We believe this Food Hopper to be the best device of the kind on sale for the use of thrifty, up-to-date poultry raisers. With this device fowls cannot waste food, yet food is always accessible and always in sight. It cannot clog, is easily refilled when empty, and easy to clean and keep clean. During the day the front screen is dropped down against the feed, at night lifted up and hooked to keep the rats out. (See cut.) Insures your chickens clean food entirely free from filth of any kind. Every poultryman will appreciate this feeder. Made of heavy galvanized iron; with care will last forever.

	Capacity	Size	P. P.	Wt. Each
No. 3 Large	1/2 Bu.	17x8x13	7 lbs.	\$1.00
No. 2 Medium	1 Pk.	17x8x 7	6 lbs.	.80
No. 4 Short	1/2 Pk.	15x8x 4 1/2	4 lbs.	.90
No. 1 Long	1 Pk.	29x8x 4 1/2	5 lbs.	1.35



Kant Klog Feeder and Exerciser.

## "KAN'T KLOG" FEEDER AND EXERCISER

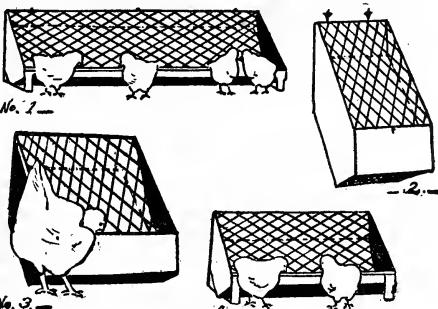
The best combined feeder and exerciser; **cannot clog**. No spring to get out of order. Swinging deflector scatters the grain all around, a little at a time. Holds enough to last your birds some time. Set to feed little or much.

**No. 29. Capacity 10 qts., each.....\$2.50 No. 31. 6 qt., for low houses, each.....\$1.75**

Equip your poultry houses and yards with these money-saving, sanitary utensils. Don't invite diseases and loss by using old pans, open dishes or wooden troughs. Add postage.



Tyco's Hygrometer.



Boston Food Hoppers.

## FOOD AND WATER CUPS

Made of galvanized iron, strong and durable; wire hangers; hold half pint. For exhibition or shipping coops.

Each 15c; doz. \$1.50 (P. P. wgt. doz. 4 lbs.)

**MOE'S NEVER FAIL TRAP NEST**

DELICATE TRIGGER HOLDING TRAP RELEASED BY HENS ENTRANCE FALLING SILENTERLY

TRIGGER LOCKS TRAP AND HEN TURNS THEM TO STAY UNTIL RELEASED

Made of galvanized iron, light, durable and as the name implies, it **never fails**. Every nest set up and ready for use when shipped.  
**NO. 33. 12x12x12 in. (P. P. 6 lbs.)...\$1.00  
NO. 34. 12x12x14 1/4 in. (P. P. 7 lbs.)...1.25**

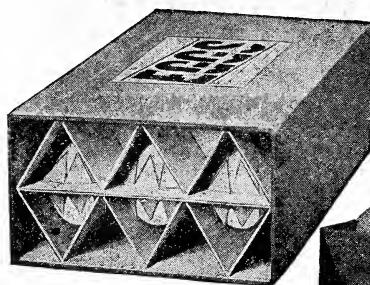
## INCUBATOR HYGROMETERS

## "Moisture Indicators"

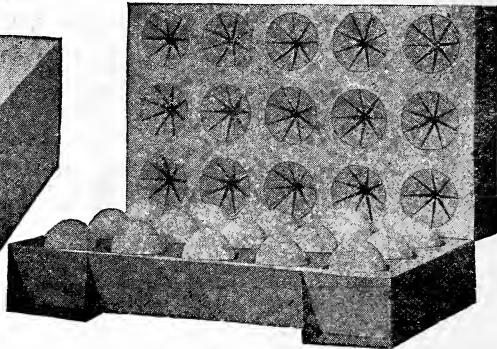
Millions of chicks die in the shell every year, for the want of proper moisture conditions. The importance of a correct percentage of moisture during incubation has made the "Tyco's" Incubator Hygrometer as necessary as the "Tyco's" Incubator Thermometer. Neither takes the place of the other, but together they give the practical poultry raiser all the facts required for successfully regulating the heat and moisture of the incubator. Descriptive pamphlet on request. (See Thermometer next page.)

Hygrometer, with full instructions, postpaid \$1.50; with Tyco's 75c Incubator Thermometer, only \$2.00.

**NEW  
STYLE,  
CUSHION  
FRAME,  
LIGHT,  
STRONG,  
AND  
SAFE**



OPEN END SHOWING CONSTRUCTION.

**DIAMOND EGG BOXES**

The Diamond Egg Carrier is something entirely new and in a class by itself. We ship it to you in the flat, thereby saving on freight or express. The peculiar construction of the box in V-shaped wedges enables us to make it of very light material while still retaining great strength so that a man can stand on them. It is easily set up.

The Diamond Egg Box has several advantages over any other box offered for shipping eggs by mail. A box, no matter what its construction is NOT SAFE where eggs set on a FLAT BOTTOM. The Diamond "V-shaped" fillers hold the egg in suspension and protect them from breakage. No other box has this feature.

If properly packed, the Diamond Egg Carrier can be dropped a distance of six feet and not harm the eggs. No other light egg box made will stand this test. Packed flat, one dozen to a package, and containing address labels, gum paper and tissue paper.

**DIAMOND EGG BOX FOR  
"HATCHING EGGS."**

Size	Doz.	Wgt.	Each	Doz.
15 egg	12 lb.	15c		\$1.50
30 egg	21 lb.	25c		2.75
25 egg	19 lb.	30c		2.50
9 egg Turkey	10 lb.	15c		1.50
9 egg Goose	14 lb.	15c		1.50
12 egg Duck	12 lb.	15c		1.50

For 100-egg size use four 25-egg size.

**DIAMOND PARCEL POST EGG BOX.**

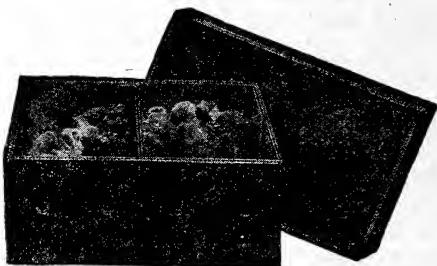
Practical and SAFE, designed especially for sending eggs by Parcel Post to your customers who can empty the cases and return to be filled again.

This new parcel post box is similar in construction to the 15-egg size above, only they are made to hold **Twelve Eggs** with additional cases provided for Two, Three and Four and up to **Eight Dozen**.

Put up "flat" in pkgs. of 12 with gummed paper for fastening, and address labels for each box.

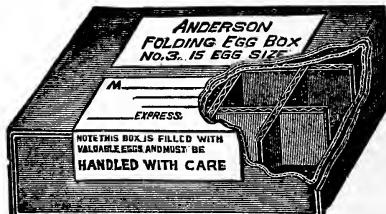
Capacity.	Each	Weight	Price
	Empty	Filled	Each Doz.
1 doz. S. C.	3/4 lbs.	2 1/4 lbs.	15c \$1.00
2 doz. D. C.	1 1/2 lbs.	4 1/4 lbs.	25c 2.00
3 doz. D. C.	2 lbs.	6 1/4 lbs.	30c 2.60
4 doz. D. C.	2 1/2 lbs.	8 1/4 lbs.	40c 3.00

Write for prices by the 100 and for larger sizes.

**LIVE CHICK BOX**

Made from the best grade of corrugated card board. Shipped in the flat, but quickly set up by anyone. The use of this box has made long distance express shipments of live baby chicks possible and safe.

Size	Weight	Empty	Each	Doz.
25 chick	P. P. 1 1/4 lbs.	20c	\$2.00	
50 chick	P. P. 2 1/4 lbs.	25c	2.50	
100 chick	P. P. 3 lbs.	40c	4.00	

**ANDERSON EGG CARRIERS**

This has been a popular egg box for several years. A safe box for the expressing of fancy eggs, for hatching. Each egg should be wrapped before dropping into its place.

Size	Weight, Empty	Each	Doz.
15 egg	1 lb. each	15c	\$1.50
30 egg	1 1/2 lbs. each	25c	2.50
50 egg	2 1/4 lbs. each	35c	3.50
100 egg	4 lbs. each	60c	5.25

**IDEAL EGG BOX**

Hold 12 eggs; very handy and convenient for private trade. Saves eggs and counting.

Price—Per doz. 20c (P. P. 1 1/4 lbs.); 100 for \$1.00 (P. P. 11 lbs.); 1000, \$8.00.

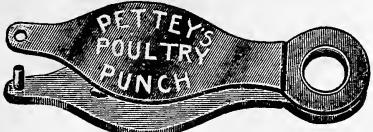
**POSTAGE.**—In ordering above egg boxes by mail or P. P., be sure you add extra money for postage. **RATE TABLE PAGE 1.** P. P. stands for parcel post not PREPAID.

**POWDER GUNS**

For applying insect and lice powder, saves powder. Hold the fowl by the feet.

**DEFENDER.**

10c; postpaid 15c

**JUMBO.**—Larger and better 25c postpaid 30c**POULTRY MARKERS**

Very necessary for marking the web between the toes of baby chicks, if you wish to know different strains or stocks. Put leg bands on when they get older.

**OTIS & MOE.**—About the same style as

Petteys, punches a clean hole, also has a cigar end clipper and eye for attaching to key chain.

Price, postpaid, 25c

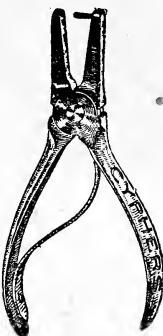
**CYPHER'S PERFECT MARKER** (see cut).—

Large and strong, easy to use.

Postpaid 50c

**RELIABLE MARKER.**—Same style as Stern's without the finger loop.

Postpaid 20c



Cypher's



Sterns' Poultry Marker.

**PETTEY'S PUNCH** (see cut).—New style. Postpaid 25c**STERN'S POULTRY MARKER.**—Latest and best. Finger hold or loop handle, most convenient (see cut).

Postpaid 35c

**LATEST AND BEST LEG BANDS FOR POULTRY AND PIGEONS**

Keep a supply of Leg Bands on hand at all times; this is the only safe way to mark your different birds so you can tell certain stock or strains. Of course every bird must be marked with a band before it can be entered in a show. **WHAT SIZE?**—When you order, tell us size or what kind of birds you want them for and whether male or female. **DON'T FORGET.**

**NO. 1. LEADER ADJUSTABLE** (see cut).—Has neat, compact and smooth fastening, with no catching points, easily attached and is absolutely secure.

Prices, postpaid, any size, 12 for 15c, 25 for 30c, 50 for 50c, 100 for 80c. (State size.)

**NO. 2. CHALLENGE ADJUSTABLE.**—A new, light weight, smooth, adjustable band, having embossed or raised numbers which makes them easier to read. (One size adjustable for any breed.) Prices same as Leader No. 1

**NO. 3. COLORED LEADER.**—Adjustable. Latest band. The color is inlaid in metal protecting band. Answers every purpose. Colors, white, pink, red, blue, yellow and green.

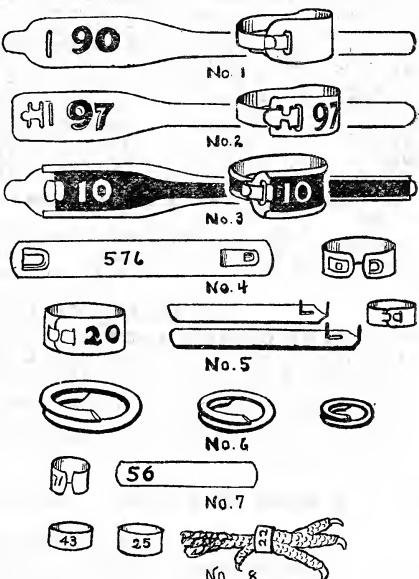
Prices, 12 for 30c, 25 for 60c, 50 for \$1.00, 100 for \$1.75

**NO. 4. MOE'S SELF LOCKING LEG BAND.**—You simply push ends together to lock it and it must be destroyed to remove it. Far superior and much cheaper than the leg bands requiring a sealing tool to seal them. Same price as Double Clinch. (State size.)

**NO. 5. DOUBLE CLINCH.**—A desirable band, very safe; no exposed corners, ends or loops; has double fasteners (see cut). Also made in Pigeon sizes.

Prices postpaid, any size, 12 for 15c, 25 for 30c, 50 for 50c, 100 for 80c. (State size.)

**NO. 6. SPIROL COLORED**—Durable, Practical, Economical.—(See cut). Provide instant identification without handling the birds. You can identify birds as far as you can distinguish colors, which will tell you the yearling hens and which are older,



your different matings, and so on. Fine for baby chicks. Eight colors: Red, White, Pink, Amber, Blue, Black, Ruby, Green. Slipped on like a key ring; cannot drop off.

Prices, 12 for 20c, 25 for 35c, 50 for 60c, 100 for \$1.00. (State size wanted.)

**NO. 7. OPEN PIGEON OR CHICK BANDS.**—Same price as Double Clinch (see cut).

**NO. 8. SEAMLESS PIGEON OR BABY CHICK BANDS.** Prices, postpaid, 12 for 30c, 25 for 50c, 50 for 85c, 100 for \$1.50. (State size.)



**SANITARY  
WOODEN  
PIGEON  
NESTS**

Made of 10-inch, solid square redwood blocks. Sanitary and prevents chilling of eggs or squabs. Cannot tip over. Large enough for any variety of pigeons.

**Price, 20c each; \$2.00 doz.** (Parcel Post weight, 20 lbs. per doz.)



**Automatic Chick Greaser.**

**AUTOMATIC CHICK GREASER**

(See illustration)—every chick its own doctor. It is the large lice which collect on the heads of young chicks which cause them to droop and die; and formerly the only way was to catch each chick and rub grease on its head; but this slow and tedious process is not necessary since the invention of the Automatic Chick Greaser. The wick around the upper part of the greaser is saturated with Conkey's Head Lice Ointment or with a mixture of two-thirds lard and one-third kerosene (or black oil) and every chick which eats out of the pan will get its head thoroughly greased in a very few minutes. Can be moved from one pen to another.

**NEW STYLE.**—Mailing wgt. 2 lbs., add postage. Price \$1.00

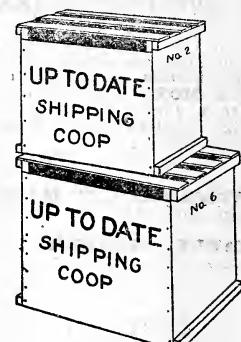
**UP-TO-DATE SHIPPING COOPS**

These coops are really "up-to-date" and will give your customers that impression of you if you use them when shipping. Buyers who pay fancy prices for thorough-bred birds like to see them come in a nice coop—not some old cracker box or oil case. These coops are light but strong. The ends have the cleats nailed on. We ship in the flat to save charges, but it's an easy matter to nail them together, for each part is marked.

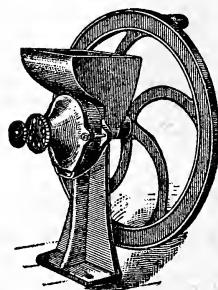
Number	Width	Length	Height	Each	Doz.
<b>NO. 2</b>	10 1/2 in.	18 in.	24 in.	40c	\$4.00
<b>NO. 4</b>	10 1/2 in.	24 in.	24 in.	50c	5.00
<b>NO. 6</b>	19 1/2 in.	24 in.	24 in.	60c	6.00

**For Parcel Post—No. 2 weighs 3 lbs.; No. 4, 9 lbs.; No. 6, 15 lbs.**

**Capacity.**—No. 2 suitable for single birds or pair Mediterranean. No. 4 for Asiatic male, American or Mediterranean pair or small trio. No. 6 for a pen of five birds, any variety.



**Shipping Coop.**



**No. 32 Mill—You need one.**

**GRINDING MILLS**

**NO. 32 HAND GRINDING MILL.**—In this mill are embodied all the good features of other hand grinding mills to which have been added universal burrs or grinding plates that are quickly adjusted and locked for grinding coarse or fine. This machine will grind any kind of grain or seeds, dry bone, shells, crockery, etc., for feeding to poultry. Has a 16-inch fly wheel and is light running; the capacity is not equalled by any other of the same size. Weight 40 lbs. Price \$5.50

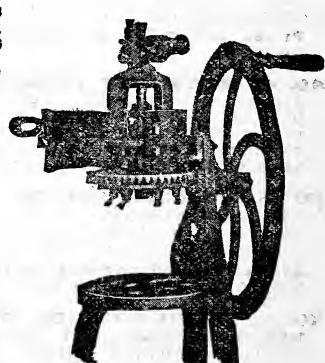
**NO. 35 E. HAND OR POWER (1/2 horse power) Price \$10.00**

**GREEN BONE CUTTERS**

**MANN'S GREEN BONE CUTTER.**—Without any doubt the best and only successful green bone cutter on the market today. The No. 6-B and No. 7-BM are the two best and most popular sellers.

**MANN'S NO. 5-B.**—Has a large balance wheel, making it easy to operate. Should be mounted on a bench. Has four knives, large, solid cylinder, and has the latest patent automatic governing spring feed, which makes it one of the best low-priced bone cutters ever offered. Price \$10.00

**MANN'S NO. 7-BM.**—The new No. 7-BM is mounted on a strong iron stand, and has patent automatic governing spring feed. Large open-hinged cylinder, giving instant access to all working parts, has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements. (See cut.) Price \$15.00



**Mann's No. 7 for green bone**

Plant berry bushes in the poultry yards. YOU get the FRUIT and the BIRDS get the SHADE in summer. Our nursery catalog on request.

**CAPONIZING TOOLS**

Poultrymen can double their profits by caponizing. The operation is very simple; the instructions are so full and explicit that any man, woman or child, after a careful reading, will be able to perform the operation.

**Philadelphia Set** (see cut).—Complete with instructions. Cardboard box, postpaid, \$2.50; wooden case, velvet lined, \$2.75.



Tyco's No. 22.



No. 29.



No. 20.

**THERMOMETERS**

We sell the "Tyco's," recognized as the most dependable.

**FOR INCUBATORS**

No. 22 "Tyco's."—Very popular. Generally suspended on string or wire on level with eggs. (Cypher's style.)

Postpaid 65c; wire hanger 10c extra

Tyco's Certified.—Same style as No. 22. Scale is etched on glass tube as well as metal back. "Certified correct," worth the price.

Postpaid \$1.00

No. 20.—Tested, for incubators, used in Buckeye and other incubators.

Postpaid 65c

No. 22½.—Similar to No. 20 with folding legs, adjustable; to be set up in egg tray.

Postpaid 75c

**FOR BROODERS**

No. 29.—New style and most convenient; temperature readable from above the hover. Used in both Cypher's and Buckeye Brooders.

Postpaid, each 60c; 2 for \$1.00

Cypher's, for Portable Hover. Price, 60c  
International, for Hover. Price, 60c

**NOTE.**—We keep in stock miscellaneous extra parts for Cypher's incubators and brooders. Ask for price list of stock wanted.

**LAMPS****OAKS HYDRO SAFETY**

Made especially for incubators and brooders. They have a water jacket to keep oil and burner cool and are perfectly safe. Economical and satisfactory in every way.



Oaks Safety

**No. 1**—7½ in. high; 5¢ in. wick (P. P. 1½ lbs.) ..... \$1.00

**No. 2**—8 in. high; 1 in. wick (P. P. 2 lbs.) ..... 1.50

**No. 2**—9 in. high; 1½ in. wick (P. P. 3 lbs.) ..... 1.75

**CYPHER'S INCUBATOR LAMPS**, (seamless bottom) with burner and wick complete. No. 0, 85c; No. 1, 95c; Nos. 2 or 3, \$1.10, postpaid. Burners only, No. 0, 40c; No. 1, 50c; Nos. 2 or 3, 70c, postpaid.



X-Ray.

**X-RAY EGG TESTER**

Used to test fertility of eggs during first week of incubation. Use on an ordinary lamp (No. 2 burner) in a dark room to illuminate interior of egg.

Price, postpaid, 40c



**NEW MEDICATED**.—Answers as a nest egg, also an insecticide. Keeps lice out of the nests and off the hen. Non-breakable. Each egg wrapped with paper and full instructions.

Each 10c; 3 for 25c; 12 for 75c; (P. P. 2½ lbs. per doz.)

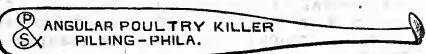
**LIME NEST EGG**.—Better than China eggs; non-breakable. More natural. Each 5c; 3 for 10c; 12 for 30c (P. P. 2 lbs. per doz.)

**POULTRY KILLING KNIVES**

You open the fowl's mouth and cut the jugular vein. Let them bleed and dry; pick while warm.



**Pilling French Poultry Knife.** Postpaid 50c



**Angular Killing Knife.** Postpaid 50c

**NOTE.**—We keep in stock miscellaneous extra parts for Cypher's incubators and brooders. Ask for price list of stock wanted.

## "Highest Quality" Poultry Foods

**At special prices direct to Poultry Raisers:** 5 bags assorted foods at 500-lb. prices.  
**Prices subject to important market changes.** Write for quantity price when ready to buy.

The planter who buys better seed gets better crops. He who fertilizes his soil—manures it well—is amply repaid in the size of his harvest. The poultryman who feeds the Highest Quality poultry foods, makes more profit than he who is content with screenings, although his feed costs a lot more.

### "HIGHEST QUALITY" CHICK FEED

Prepared especially for chicks 4 to 8 weeks old. Put up for us under the "Pure Food Law" by one of the largest manufacturers of poultry foods in the United States, and is the "highest grade" Chick Food made; always clean and sweet.

Price, 5 lbs. 25c; 12½ lbs. 50c; 100 lbs. \$3.00; 500 lbs. @ \$2.75.

### R. S. & F. CO.'S "HIGHEST QUALITY" SCRATCH FOOD

A complete ration for large chicks or full grown poultry. It is a perfectly balanced feed, composed of a variety of clean grains mixed with the proper amount of prepared beef, fresh granulated bone, charcoal, grit and shell. Will keep your poultry in perfect condition. Makes an excellent and profitable food. You can't mix it as cheaply as we sell it, if you mix it right.

Price, 6 lbs. 25c; 10 lbs. 35c; 50 lbs. \$1.35; 100 lbs. \$2.80; 500 lbs. @ \$2.35.



937 Molalla Ave., Oregon City, April 10, 1915.  
 Routledge Seed & Floral Co.

Gentlemen: Please ship via O. W. P. one International Sanitary Hover as soon as possible.

Have three now, which work fine.  
 Yours respectfully,  
 H. L. ROSE.

### POULTRY PEPPER

A good tonic and invigorator. Ground.  
 Price, 1 lb. 25c; 5 lbs. \$1.00

### POULTRY MUSTARD

Ground fine. 1 lb. 20c; 6 lbs. \$1.00

### CLOVER OR ALFALFA MEAL

The best substitute for green food for winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts.

Price, 1 lb. 10c; 10 lbs. 50c; 100 lbs. \$1.50

**IMPORTANT NOTICE TO POULTRY KEEPERS.**—We want your trade direct—not the dealer's, therefor give you strictly wholesale prices in 5, 10 and 20-bag lots.



### GRANULATED BONE—"SPECIAL"

We offer only highest quality, white, pure and clean. The fresh bone contains about 40 per cent water and 12 per cent grease; 52 per cent of matter which your fowls do not need. The granulated bone we offer is made from fresh, green bones, from which the moisture and grease have been taken, leaving the phosphates, lime and protein. Should be kept before your chickens at all times. Feed in a Sanitary Shell and Grit Box.

Price, 6 lbs. 25c; 14 lbs. 50c; 100 lbs. \$3.00; 500 lbs. @ \$2.75

### BEEF SCRAPS

Our "Highest Quality" beef scraps are rich in materials which make bone, muscle and lean meat. They insure health, thrift and vigor, and satisfy the natural craving of the bird's system for flesh-food in some form. Rich in protein, pure and free from any adulteration. Can be fed dry or with cooked rations. Don't waste any, feed in one section of your Sanitary Shell and Grit Box. (Read about "SeaProCo," page 14.)

Price, 5 lbs. 30c; 10 lbs. 50c; 50 lbs. \$2.25; 100 lbs. \$4.00; 500 lbs. @ \$3.85

### GRIT—Best Grade

Every poultry raiser should keep a supply of this grit in each pen. Baby chicks and ducklings must have it. Made in three sizes chick, pigeon or broiler and hen size. We always send hen size unless otherwise ordered.

Price, 5 lbs. 10c; 14 lbs. 25c; 100 lbs. \$1.00; 500 lbs. at 90c.

### POULTRY SHELLS, CRUSHED

These should be within reach of your hens at all times. Not straight Oyster Shells, but a combination of Oyster, Sea and Clam Shells that is rich in lime material for egg shells. Gives good results and is much cheaper. Put in one section of your Sanitary Feeder.

Price, 5 lbs. 10c; 14 lbs. 25c; 100 lbs. 90c; 500 lbs. 80c.

### OYSTER SHELL, CRUSHED

This is pure hard oyster shell crushed and sifted, preferred by some to our Poultry Shell.

Price, 5 lbs. 10c; 12 lbs. 25c; 100 lbs. \$1.25; 500 lbs. @ \$1.10.



## Cypher's Chick and Poultry Foods

**IMPORTANT NOTICE**—Cypher's Mixed Poultry Foods are now manufactured on the Pacific Coast and car load lots will be kept in storage in our Portland warehouse, therefore you are assured of prompt shipments of the “Highest Quality” foods made in the U. S. A.

**Cypher's Booklet—Foods and Feeding**—is full of valuable information. Tells What to feed, When and How and why “Cypher's” is best. FREE. 2c stamp for postage.

### CYPHERS' CHICK FOOD

A complete, scientifically compounded food for young chicks. No weed seeds, by-products or grit. Is composed solely of sound, sweet grain. Fed by thousands of earnest men and women who year after year are raising chickens the “Cypher's Company Way.”

Prices, 5 lbs. 25c; 12 lbs. 50c; 50 lbs. \$1.60; 100 lbs. \$3.00.

### CYPHERS' DEVELOPING FOOD

A special dry grain mixture intended for properly maturing chicks after they are ready to be weaned from Chick Food, and to carry them along to the age when it is desirable to place Scratching and Laying Mash before the pullets.

Prices, 5 lbs. 25c; 12 lbs. 50c; 50 lbs. \$1.60; 100 lbs. \$3.00.

### CYPHERS' GROWING MASH

We recommend the use of Growing Mash in connection with Developing Food until the chicks are three months old, when the Developing Food should be replaced by Scratching Food.

Prices, 12 lbs. 50c; 50 lbs. \$1.60; 100 lbs. \$3.00.

### CYPHERS' FATTENING MASH

Especially designed to promote rapid formation of firm, tender flesh. Cypher's Fattening Mash will produce results that cannot be obtained by any other method.

Prices, 12 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.85.

### CHARCOAL

Our Granulated Charcoal is prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion; a health preserver. State size wanted

**A** for mash, **B** for chicks, **C** for large chickens or hens.

Price, 1 lb. 10c; 3 lbs. 25c; 10 lbs. 75c; 50 lbs. \$2.00; 100 lbs. \$3.75.

## SEA-PRO-CO. FRESH FISH FIBER

A New Process Clean, High Grade Food for Poultry 68% Protein.

SeaProCo contains 25 per cent more available flesh and egg forming protein than any other Fish, Meal or Beef Scraps.

### AN ANIMAL FOOD OF MERIT.

We positively guarantee no fish flavor to eggs or flesh of poultry fed with our SeaProCo, fresh fish fiber.

### A NEW PROCESS.

SeaProCo fresh fish fiber is manufactured by a new process which retains the rich, nutritious food elements. The instant one examines it they notice a great difference between SeaProCo Fresh Fish Fiber and other fish meals and beef scraps sold for poultry food. There is nothing like it. Our process cooks the fish, extracts the crude oil, evaporates the water and separates the flesh fiber from the refuse, which is converted into fertilizer.

Free Sample and 8 page description Pamphlet on request.

Examine SeaProCo fresh fish fiber, notice the meat fiber, the rich, sweet smelling baked fish flavor, no rank odor of decayed fish.

### CYPHERS' LAYING MASH

This is not in any sense a condiment or an egg stimulant. On the contrary, it is strictly A FOOD—a palatable, highly nutritious, balanced egg ration, ready mixed for the daily mash.

Prices, 12 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.85.

### CYPHERS' FERTILE EGG MASH

This food has for its special object the production of well-fertilized eggs in large numbers—eggs that possess in abundance, also in proper proportions, the rich materials needed to develop and feed the chick embryo so that the chick at hatching time will be large, vigorous and in perfect health. Feed once a day.

Prices, 12 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.85.

### CYPHERS' PIGEON FOOD

In compounding a food for pigeons the proper selection, age and condition of the various grains is of great importance. This food is prepared by experts and will give the best of results.

Prices, 5 lbs. 25c; 12 lbs. 50c; 50 lbs. \$1.65; 100 lbs. \$3.15.

### CYPHERS' SALT CAT (for Pigeons)

This preparation possesses aromatic and tonic properties of such roots, herbs and seeds as gentian, anise, caraway, cummin, and coriander; also bone, crushed oyster shell, granulated charcoal, crushed limestone, rock salt, sulphate of iron, etc. It aids digestion, invigorates the system and promotes good health. It is put up in brick form, which keeps the birds busy picking at it, and prevents waste. Crumble the salt cat for young birds.

Prices, per brick, 25c; doz. \$2.50. Mailing weight 1½ lbs. each.

Also notice it is not cooked and dried until all rich nutritious food elements are extracted.

That is why—

It is more easily digested.

It is more quickly assimilated.

Contains more crude Protein.

Contains more available Protein.

There is a greater per cent of availability of all food nutrients. Better than green bone and will not spoil if kept in a dry place. Unequalled for baby chicks, growing stock and Egg Production. SeaProCo Fresh Fish Fiber is clean and pure, in fact, fit for human food. Can be fed dry in food hoppers or mixed in dry or wet mash.

Small sample and 8 page pamphlet giving full information and detailed analysis free on request; but better still, order a 5 lb. package postpaid, 35c.

Prices, 5 lbs. 25c; 50 lbs., \$2.00; 100 lbs. \$3.75; 500 lbs. at \$3.65.

## Conkey's Guaranteed Poultry Remedies

**READ THIS.**—We handle 2 to 3 carloads a year of these celebrated remedies which have built their reputation upon the scientific basis of one remedy for each disease.

A "Cure All" is not made by the Conkey Company. Each remedy is intended to serve one special purpose and serve it well. These goods are absolutely guaranteed and we offer them to you on this basis: If they fail to satisfy you in any particular, your money will be refunded to you cheerfully. Conkey's Descriptive Book, free.



### Conkey's Remedies and Tonics

are good, and if you have them at your elbow you can laugh at disease. We guarantee Conkey Goods to satisfy you or we'll refund your money. Ask for Conkey's Poultry Book.

Roup Cure,	25c, 50c, \$1.00, prepaid
Canker Special Remedy,	50c, or 60c prepaid
Roup Pills, Special,	50c prepaid
Bronchitis Remedy,	50c prepaid
Blackhead Remedy,	50c prepaid
Cholera Remedy,	25c and 50c prepaid
Gape Remedy,	30c and 55c prepaid
Chicken Pox Remedy,	30c and 55c prepaid
Lice Fix, New,	50c prepaid
Limber Neck Remedy,	50c, or 60c prepaid
Scaly Leg Remedy,	30c and 55c prepaid
Rheumatic Remedy,	50c, or 60c prepaid
Poultry Laxative,	25c, or 30c prepaid
Poultry Conditioner,	25c, or 35c prepaid
Poultry Worm Remedy,	50c prepaid
Poultry Flea Salve,	25c, or 30c prepaid
Sulphur Candles,	10c, or 15c prepaid

**CONKEY'S WHITE DIARRHOEA REMEDY.**  
—Save your chicks by putting it in their drinking water.

Price 25c and 50c prepaid

## Conkey's Guaranteed Stock Remedies

**CONKEY'S STOCK BOOK.**—This 224-page illustrated and up-to-date book is priced at \$1.00 and is well worth it, but we get a few FREE to our customers as long as they last. (Send 5c for postage.)

**Stock Tonic.**—For horses, cows, sheep and hogs.

Prices (not prepaid): 2 lbs. 25c; 3 lbs. 50c; 7 lbs. \$1.00. Mailing weights given, add postage, 12 lb. pails, \$2.00 and 25 lb. pails \$3.50 (not mailable).

**Worm Remedy.** 50c postpaid

**Colic Remedy.**—Just a few drops on the tongue; effective.

50c; postpaid, 60c; \$1.00 size postpaid, \$1.10

**Eye Lotion.**—For sore eyes. 50c postpaid

**Distemper and Cough Remedy.** 50c; 60c postpaid

**Healing Powder.**—For gall sores, cuts or wounds, excellent.

25c; 35c postpaid

**Gall Salve.** 25c and 50c; postage 10c extra

**Pain Lotion.**—For swellings, etc. (P. P. 2 lbs.) 50c

**Absorbent.**—For spavins, etc. (P. P. 1 lb.) \$1.00

**CONKEY'S HEAD LICE OINTMENT.**—Save your little chicks from the ravages of the deadly head lice. Absolutely harmless to the little chicks. Put up in tubes. Easy to apply. Price, 10c and 25c prepaid

**CONKEY'S LICE POWDER.**—It is positive death to lice, ticks, etc. Equally effective for lice on setting hens and young chicks. Gets them all. Cleans up the coop. Absolutely harmless to even the smallest chick. Easy to apply and does the business or your money back. Get a package today. Prices (not prepaid): 8 oz. pkg. 10c; 1½ lb. 25c; 4 lbs. 50c; 8 lbs. \$1.00; 25 lb. pail \$2.50. Note.—Weights given wrapped for mail, add postage.

**CONKEY'S LICE LIQUID.**—A powerful liquid that will destroy the thousands of red mites that live in the cracks and crevices of the house and nests in the day and swarm the fowls' bodies at night. You can't reach them with a powder. Paint or spray the roosts, nests and walls. Prices: 1 qt. can 35c; 2 qts. 60c; 1 gal. \$1.00; 5 gals. \$4.00 (not mailable).

**CONKEY'S LAYING TONIC (Poultry Tonic).**—It insures the maximum egg production both summer and winter. Guaranteed to please you or money back. Prices (not prepaid): 2 lbs. 25c; 4 lbs. 50c; 8 lbs. \$1.00. NOTE—Add postage if wanted by mail. Weights given are wrapped.

### CONKEY'S DOG REMEDIES

**Mange Remedy.**—An absolute cure.

Price 50c; 60c prepaid

**Distemper Remedy.**—This is an excellent remedy for this terrible disease.

Price 50c; 60c prepaid

**Dog Tonic.** Price 50c; 65c prepaid

**Worm Drops.**—Absolutely safe.

Price 50c; 65c prepaid

**Pi-no** is a valuable disinfectant and germicide for the dog owner. Very agreeable pine odor.

Prices: 1 pt. 50c, prepaid 60c; 1 qt. 75c; 2 qts. \$1.00; gal. \$1.50 (not mailable).

**Hoof Remedy.**—The very best; to be applied on the hoof.

Pint (P. P. 1½ lbs.) 50c; qt. 75c; ½ gal. \$1.25; gal. \$2.00.

**Bag Ointment.** 25c and 50c; postage 10c

**Nox-i-cide.**—Disinfectant and dip for dogs and poultry.

Pint (P. P. 2 lbs.) 35c; qt. 60c; ½ gal. 90c; gal. \$1.50.

**Dip and Disinfectant.**—Best sheep and hog dip made. Quart 50c; ½ gal. 75c; gal. \$1.25; 5 gal. \$5.50.

**SALT-EM.**—Medicated salt, much better than rock salt. Ask for pamphlet.

Prices: 100 lb. keg \$6.00; 40 lb. pail \$2.75; 20 lb. pail \$1.50; 10 lb. pail 90c.

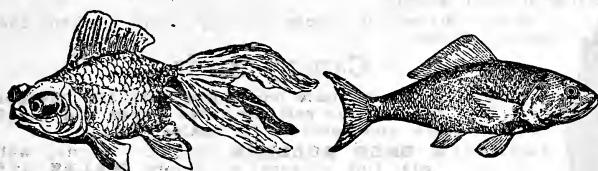
**FLY KNOCKER.**—Best fly spray made; fully guaranteed.

Qt. 35c; 2 qts. 60c; gal. \$1.00; not mailable.

**BY PARCELS POST.**—At last we have an inexpensive way of getting these valuable remedies to our far away customers. On those NOT MARKED postpaid, take the P. P. (Parcels Post) weight and consult the Zone and Rate Tables, page 1, SO YOU CAN ADD PROPER AMOUNT FOR POSTAGE. Liquids in more than pint cans NOT MAILABLE.

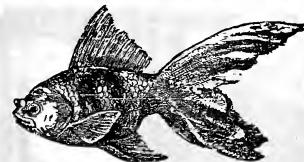
## GOLDFISH GLOBES, FOOD, ETC.

We are the largest retail and wholesale dealers in Fancy Gold Fish in the Northwest, often having a thousand or more on display in our large aquarium at our store.



Chinese Telescope.

Common Gold Fish.



Japanese Fan-tail.

An aquarium is a beautiful ornament. It suits everywhere, parlor, library, dining and sitting room, and may indeed be introduced in apartments of the sick. The bright, active Gold Fish are very interesting, a perpetual source of amusement for both old and young folks. Children are always delighted with them.

**CARE OF GOLD FISH.**—The care of Gold Fish is very simple and little trouble. The water in the aquaria must be changed from one to six times a week, depending on the size of the globe, number of fish and the temperature. When the fish come to surface and gasp for air, they should be given fresh water. **FEEDING.**—The only safe diet is our prepared Fish Food, fed daily and only what they will eat up quickly. Bread or cracker crumbs should never be fed—more fish die from overfeeding than any other cause. Keep the aquaria out of the direct hot sun light and in a cool place.

### Price List of Fish

**COMMON GOLD FISH** (see cut).—Very hardy and lively. Each, very small, 15c; small, 25c; medium, 35c; medium large, 50c; large, 3 to 4 inches, 75c; extra large, \$1.00; extra large breeders \$1.50 to \$2.00. Fancy Tri-colored, 35c to \$1.00 and up.

**COMMON SILVER FISH.**—Same as above, except they are silvery white. Each, medium, 25c; large, 50c; large breeders, \$1.00.

**JAPANESE FAN-TAIL** (see cut).—The most popular fancy fish. The fins and tail are of a delicate lace-like appearance, very showy and attractive. Price, golden, small, 25c; medium, 35c; large, 50c to \$1.00; Tri-colored, golden red, pearly-white and black, showing two or all three colors, 50c, 75c and \$1.00 each.

**NOTE.—ALL SHIPMENTS** (outside of the city by express only. A charge of 15c is made to cover cost of Shipping Bucket, holding from two to six fish. Gold Fish can be shipped safely overland hundreds of miles.

**COMET.** Very fancy; the most graceful of all. Similar to the Japanese Fan-tail, but the fins and tail are much longer and delicate. The tail is often longer than the fish. Price each, small, 25c; medium, 50c; large, 75c to \$1.00; large fountain size, \$2.50.

**CHINESE TELESCOPE** (see cut). Curious and attractive on account of the large, elongated eyes, having the appearance of a telescope. Flowing double tails. Very rare. Price each, all gold, 50c to 75c; all black, 75c to \$1.00; black and gold, 75c to \$1.50.

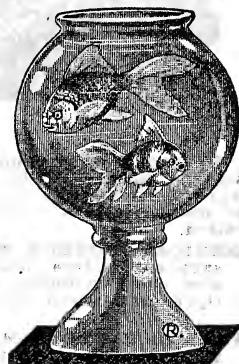
**TADPOLES.** Desirable as scavengers for the aquaria. They consume the decaying matter and help keep the water pure. Price each, 15c.

**GREEN TURTLES** in season, April to July. 1½ to 2 inches. Each, 50c

**LIMMARDS** (Water Dogs), Eastern. About 3½ inches long. Each, 25c

**BOOK—AQUARIAS AND GOLD FISH.** Gives full information on care, breeding and feeding; Illustrated. 25c

**WHEN?** We have the largest supply of Gold Fish on hand during the FALL, WINTER and EARLY SPRING. It is not safe to ship fish during the hot summer months.



Standard Fish Globe.

### Aquaria Plant or Moss

This water plant improves the appearance of the aquaria or globe and helps purify the water. Price per bunch, 25c, postpaid. Cannot supply in July or August.

### Fish Food

Best imported wafer, large box, enough food for four fish for six months, 25c postpaid. Directions for feeding and care on each box.

### Fish Globes

Cannot be sent by mail. Without foot or base, each quart, 25c; ¼-gal. 35c; ½-gal. 50c; 1-gal. 75c; 1½-gal. \$1.00; 2-gal. \$1.25; 2½-gal. \$1.75; 3-gal. \$2.25. WITH BRASS CHAINS FOR HANGING, 25c extra.

### Standard Globes

Cannot be sent by mail.

Like illustration, each, ¼-gal. \$1.00; ½-gal. \$1.25; 1-gal. \$1.50; 1½-gal. \$1.75; 2-gal. \$2.00; 2½-gal. \$2.50; 3-gal. \$3.00.

### Aquaria Castles

As ornaments to set in the globes. 25c to 50c and up to \$1.00 each

## BIRDS

We are the largest importers and dealers in Birds and Gold Fish in the Northwest. This department of our business has grown rapidly and we now carry large and complete stocks of supplies and foods and all birds in their season.



Note.—Write for prices on any birds wanted, that are not listed.

### Canary Birds

**Note.**—Do not compare our prices with the irresponsible bird fakers, who sell for little prices and supply inferior stock and females for males, etc.

**AMERICAN BRED ROLLERS.** Healthy, hardy, well-shaped birds, fine singers; all colors. **MALES**, \$2.50 to \$3.50 each. **FEMALES**, \$1.00; Selected deep yellow, \$2.00.

**HARTZ MOUNTAIN ROLLERS (Imported).** From the Hartz Mountains, Germany. Beautiful and incessant singers, hardy and thrive anywhere. Their cheery song is like sunshine to the soul; their bright plumage, active ways and cheerful dispositions make them the favorites and most popular. **MALES**, \$3.50 to \$5.00 each. **FEMALES**, \$1.50 to \$2.00 each.

**ST. ANDREASBERG (Imported).** These are world-renowned and the sweetest singers. They are given three to six months' musical training to develop the long trills, flute notes, etc. **MALES**, \$7.50 to \$10.00 each. **FEMALES**, \$2.00 to \$3.00.

### Parrots

We handle more young parrots than all other Northwestern dealers combined. The young parrots arrive during July and August, but we aim to have stock on hand at all times. Price of trained talkers on request. The following birds are hand-raised:

**MEXICAN DOUBLE YELLOW-HEADED.**—These make the excellent talkers, learn quickly and make great pets, large size, green plumage, yellow on top and back of head, red-tipped wings and blue feathers, in wing and tail.  
Each, \$15.00 to \$20.00

**PANAMA PARROT.**—Make good talkers, very large size, bright green plumage with red and blue in wings and tail.  
Each, \$15.00 to \$25.00

**CUBAN PARROT.**—Medium size, green plumage, red tips on wings, light face, gentle, fine pets, good talkers. Each \$7.50

**MEXICAN RED-HEADED PARROTS.**—Medium size, trim and active, make fair talkers, gentle. Green plumage, bright red on head, blue in wing and tail.  
Each, \$7.50 to \$10.00

### Bird and Pet Books.

**Feathered Pets**—140 pgs., 25c; **Parrots and Talking Birds**, 30c; **Canary Breeding and Training**, Geisler, 25c; **Belgian Hare Guide**, 25c; **Rabbits and Cavies**, 25c; **Pigeons**, Care and Management, 25c.



Talking Parrot.



Hendryx Square Brass Cage Showing Fine Screen Seed Guard.

### BIRD CAGES, ETC.

Our large Illustrated Folder shows large pictures of our leading styles of **Canary, Parrot, Chipmonk and Squirrel Cages, Hang-ers, Feeders, etc., etc.**, gives sizes and prices. Free on request.

### Canary Cages

**BRASS.**—Square, neat and well made. Our leading sellers. (See cut.) **WITH SEED GUARD** (which keeps the birds from throwing seeds and dirt out of the cages),  $9\frac{1}{2} \times 6\frac{1}{2}$  inches (floor), \$2.25;  $10\frac{1}{4} \times 7\frac{1}{4}$  inches, \$3.00;  $10\frac{3}{4} \times 9\frac{3}{4}$  inches, \$3.50. **WITHOUT GUARD**, \$1.75, \$2.00 and \$2.25 respectively. Packing and postage 50c extra.

**BRASS, Mission, Globe and Fancy Designs** with or without patent bottoms, with 6.50 and up. Not mailed.

**ENAMELED.**—Square. Very neat and satisfactory. **Without guard**,  $10\frac{1}{2} \times 7$ , \$1.25;  $11 \times 7\frac{1}{2}$ , \$1.50;  $12\frac{1}{4} \times 8\frac{1}{4}$ , \$1.75. **Round style**, 9 inch dia., \$1.50. Packing and postage 50c extra.

**OTHER CAGE BIRDS**—Space will not permit us to show other birds we have such as Paroquets, Cockateels, Finch, White Java, etc. Write if interested.

## Canary Breeding Cages

Enamelled, all complete, nests, etc. No. 4 Single, 17x9x13 inches, \$2.25. No. 3 Double, 19x10x14 inches, \$2.75. No. 2 Double, 22x11x16 inches, \$3.25. No. 1 Double, 25x12x16 inches, \$3.75.

## Cage Extras

**Food and Water Cups.**—Opal or clear glass, open or closed top. Each 10c; postpaid 15c.

**Brass Suspension Springs.**—10c postpaid; with chains, 30c postpaid.

**Brass Wall Brackets or Cage Hooks.**—25c to 75c each; postage, 10c extra.

**Cage Swings.**—10c each; postpaid, 15c.

**Nestling Hair.**—5c package; postpaid, 10c.

**Nests.**—Wire or willow, 10c; postpaid, 15c.

**Wooden Perches**—10c each postpaid.

**BIRD BATH HOUSE.**—New.—White enamelled bottom, glass sides and top, 4 inches square. Fill the bottom with warm water, open cage door and hook bathhouse before it. "His Majesty" can go in and take his bath when he pleases and cannot splash water outside. Price, each 50c; postpaid, 60c.

**Bathing Dishes.**—Glass, 10c; postpaid, 15c. Opal Glass, 15c; postpaid, 20c.

## BIRD SEEDS, FOODS AND REMEDIES

We are making a specialty of bird foods and seeds and our rapidly increasing trade shows that the public appreciates the opportunity to get "High Quality" foods and remedies of "Merit" for their pets. A trial will convince anyone of the superiority of our "H. Q." (**HIGHEST QUALITY**) Imported Bird Seeds.

**M. Q. IMPORTED BIRD SEED.**—Our own special mixture for imported Hartz Mountain and St. Andreasberg Canaries. Contains no hemp but the correct amounts of Imported Canary, Sweet Rape, Millet and Maw. Put up in sealed 1-lb. cartons only, containing Cuttle Bone and Bird Sand. Price, any quantity, 20c per lb. Cannot be sold for less on account of advance since the war.

**Ordinary Mixed Bird Seed.** 15c lb.

**M. Q. Imported Canary Seed,** recleaned. 20c lb.

**Hemp Seed** (feed sparingly). 10c lb.

**Rape Seed, common.** 10c lb.

**M. Q. Imported Sweet German Rape.** 20c lb.

Easily detected by the sweet taste.

**BY MAIL.**—If you order above seeds by mail be sure you add postage to cover.

## Max Geisler's Bird Foods and Tonics

Highly recommended by all who have used them.

**M. G. Imported "Roller" Seed for Canaries.**

Pkg. 25c, postpaid 30c.

**M. G. Finch Bird Seed for Finches.** Lb.

25c; postpaid 30c.

**M. G. German Bird Biscuit.** Keeps birds in health and song. Per carton 10c; postpaid 15c.

**M. G. "Health Food" for Canaries, Redbirds, Mockingbirds and all other seed-eating and soft-billed cage birds.** Per carton 15c; postpaid 20c.

**M. G. Song and Moulting Food.**—Excellent for birds when shedding feathers and off song. 15c, postpaid, 20c.

**M. G. Prepared Mockingbird Food.** Per tin 30c; postpaid 40c.

**M. G. Medicated Bird Biscuit.**—Food and medicine. Excellent for weak and sick birds. Per carton 15c, postpaid, 25c.

**Treatment A.**—(Song Restorer.) For birds which have lost their voices from cold, etc.; 25c; postpaid 30c.

**Treatment B.**—(Digestive Trouble.) For loss of appetite and bowel disorder; 25c; postpaid 30c.

**Treatment C.**—(Cold Cure.) For birds which are breathing hard, coughing, etc.; 25c; postpaid 30c.

**Treatment D.**—(General Tonic.) For birds which are puffed up and sick; 25c; postpaid 30c.

## Parrot Cages

**SQUARE,** heavy tinned wire, all complete: No. 101—15x14, 27 inches high, slide drawer, \$6.50.

No. 102—18x15, 28 inches high, slide drawer, \$7.50.

No. 115—16x11, 23 inches high, slide bottom, \$6.00.

No. 120—18x14, 25 inches high, slide bottom, \$7.50.

### ROUND

No. 55—14 inches diameter, 21 high, \$3.00.

No. 60—16 inches diameter, 23 high, \$4.00.

No. 65—17½ inches diameter, 28 high, \$5.00.

**PARROT STANDS.** Enamelled, with tray and feed cups. Each \$7.50.

**PARROT CAGE CUPS.** Heavy metal, self-locking, 25c; postage 10c extra.

## Chipmunk Cages, Etc.

**SQUIRREL CAGES, CHIPMUNK and MOUSE CAGES,** with wheels. Prices, \$1.50 to \$5.00. Write if interested.

**TURKISH MAW SEED.**—Canaries are very fond of it. Should be fed sparingly.

20c lb.

**Bird Sand,** silver washed. 2½-lb. cartons, 10c Crystal Grit, very fine. 5c lb.; 4 for 25c

**Cuttle Bone,** high grade, large size.

Each 5c; postpaid, 10c; with patent fasteners, 15c.

**BIRD MANNA.**—Food and medicine combined. A good conditioner. Comes in round cakes. Fastens on the wires.

Per cake, postpaid, 15c

**Mixed Parrot Seeds.** 15c lb.; 2 for 25c

**H. Q. Sunflower Seeds.** 15c lb.; 3 for 25c

**Corn for Parrots.** 10c lb.; 3 for 25c

**Gravel for Parrots.** 5c lb.; 6 for 25c

be sure you add postage to cover.

Full directions for use with each package.

**M. G. Vegetable Extract,** for blood tonic and producer. Per vial 25c; postpaid 30c.

**M. G. Fluid Mite Exterminator.** Per vial 10c; postpaid 15c.

**M. G. Mite Powder** (non-poisonous). Package 10c; postpaid 15c.

## FOR PARROTS

**M. G. Mixed Parrot Seed.** Properly mixed for good health and plumage. Full and valuable directions on the care of Parrots on each box. Per carton 20c; postpaid 25c.

**M. G. Prepared Corn,** for Parrots, to be given in addition to the seed. Per carton 20c; postpaid 25c.

**M. G. Parrot Biscuit,** for old and young, to keep them in good health and plumage. Per carton 25c; postpaid 35c.

**M. G. Parrot Spray.** Will cure Parrots of the habit of biting off their feathers. Per bottle 50c, postpaid, 65c.

**M. G. Parrot Tonic.** Unexcelled for young Parrots, cures catarrh, etc. Per bottle 25c; postpaid 35c.

**M. G. "Health Food"** for Parrots, for health and fine feathers. Per carton 25c; postpaid 35c.

OUR ILLUSTRATED FOLDER OF CANARY AND PARROT CAGES ON REQUEST.

## Philadelphia Bird Co.'s Remedies

Full directions and information with each remedy.

<b>Ant Eggs.</b>	10c; postpaid 15c	<b>Nestling Food.</b>	25c, postpaid, 30c
<b>Bird Manna.</b>	postpaid 15c	<b>Moultine Pepper.</b>	25c; postpaid 30c
<b>Bird Bitters.</b>	25c; postpaid 30c	<b>Mite Exterminator,</b> powder. 25c; postpaid 30c	
<b>Bird Orange Color Food.</b>	25c; postpaid 30c	<b>Parrot Plumage Restorer.</b> 25c; postpaid 30c	
<b>German Song Restorer.</b>	15c; postpaid 20c	<b>Parrot Tablets</b> (for feather pulling). 25c	
<b>American Salve.</b>	25c, postpaid, 30c	<b>Red Bird Gravel.</b> Pint, 10c; postpaid 20c	

## Spratts Dog and Cat Foods and Remedies

Full directions and instructions on each package.

Your dog is your best friend and is entitled to kind treatment and good care. For the ailments to which they are subject you will find nothing better than the following:



**DOG CAKES.** A staple and constant food for all breeds of dogs, known and recommended the world over. 3-lb. carton 25c (add postage); 25 lb. sack, \$2.25; 50-lb. sack, \$4.50; 100-lb. sack, \$7.50.

**COD LIVER OIL CAKES.** For dogs, tonic and regulator. 2½-lb. pkg., 25c; postage extra.

**PUPPY BISCUITS.** A complete food for puppies from 1 to 6 months old. 3-lb. carton, 25c; postage extra.

**PUPPY BONE MEAL.** 3-lb. pkg., 25c.

**DOG SOAP** (White). Kills lice and fleas, prevents skin diseases and leaves the coat smooth and glossy, contains no tar.

nicely perfumed. Per cake, 25c, postpaid, 30c.

**Alternative Cooling Tablets.** For heated blood, etc. Postpaid 50c.

**Digestive Tablets.** For severe cases of indigestion. Postpaid 50c.

**Diarrhoea Tablets.** To relieve Diarrhoea. Postpaid 50c.

**Purgative Tablets.** Perfectly safe and effective. Postpaid 50c.

**Worm Capsules.** An excellent remedy for Round, Maw and Tape Worms. Postpaid 50c.

**Worm Capsules for Puppies.** May be given with perfect safety to puppies from six weeks old to six months. Postpaid 50c.

**Tonic and Condition Tablets.** For toy dogs and puppies. Postpaid 50c.

**Distemper Tablets for toy dogs and puppies.** Postpaid 75c.

**Vermifuge Capsules for toy dogs and puppies.** Postpaid 50c.

**Dip.** Pints, 50c; prepaid, 65c.

**Mange Remedy.** Pints, 50c; prepaid, 65c.

### FOR CATS

**Cat Food.**—An excellent food and general conditioner; plain with fish or with milk. Small package (P. P. 1 lb.) 15c; large (P. P. 2½ lbs.) 30c.

**Vermifuge Capsules for Cats.** Postpaid 50c.

**Distemper Tablets for Cats.** Postpaid 75c.

**Tonic and Condition Tablets for cats.** Postpaid 50c.

**Catnip Eggs.**—Easily opened when you want catnip. Cats love to play with them. This new style always "end up" and balance. Each 10c, postpaid 15c, 2 for 25c.

## RABBITS, BELGIAN HARES, CAVIES

These make most desirable pets for the children and educational experts advise that all children are better by having pets. Aside from this, there is quite a demand for these pets and good money in raising them for sale.

**BELGIAN HARES.**—Pure bred, young, \$1.00 to \$1.50 each; breeding age, \$2.50 to \$3.50; with pedigree, \$5.00 each. Utility stock, young, 50c to 75c each; breeding age, \$1.50 to \$2.50.

**RUFUS RED BELGIANS** are improved high bred strain, beautiful rufus red in color, coat fine and soft. Young, \$1.50 to \$2.50 each; breeding age, \$3.50 to \$5.00 each; with pedigree, \$6.00 to \$7.50 each.

**NEW ZEALAND BELGIANS.**—A hardy, sturdy strain, very popular and much in demand. Grows larger and heavier than above (see cut), being raised more and more for market; lighter in color than above. The meat is fine and white, claimed by many to be better than chicken. Young, \$1.50 to \$2.50; breeding age, \$3.50 to \$5.00; with pedigree, \$5.00 to \$7.50 and up.

**WHITE ENGLISH (Pink eye).**—In great demand about Easter time, they make ideal Easter rabbits. Young, 50c to 75c each; breeding age, \$1.50 to \$2.50.

New Zealand  
Belgian Hare.



**BOOK.**—Belgian Hare Guide (Howes), 50c.

### Cavies—Guinea Pigs

Bright, active and harmless pets, they come in most all colors, generally spotted and prettily marked.

**SHORT HAIR** variety, each \$1.00; pair, \$1.50.

**LONG HAIR**, each \$1.50; pair \$2.00 to \$2.50.



Cavy (Guinea Pig).

**NOTE.**—By Young Stock, we mean from 2 to 3 months old, by Breeding Stock, 6 months or over.

## Order Sheet

# Routledge SEED & FLORAL CO.

## **Order Sheet**

In filling this order we will use the greatest care to have it true to name, and will replace any that may prove untrue. But no sale by us carries a warranty of quality, express or implied, and for any error we shall not be liable for more than the purchase price. Every purchase from us is made on these terms. ROUTLEDGE SEED & FLORAL CO.

ROUTLEDGE SEED & FLORAL CO.

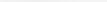
**NAME** \_\_\_\_\_

**DO NOT USE  
THESE SPACES**

**POST OFFICE** ..... **R. F. D. NO.** .....

R. F. D. NO.

**STATION** .....  
(If different from P. O.)

**EXHIBIT C** 

COUNTY \_\_\_\_\_ STATE \_\_\_\_\_

**STATE**

DATE \_\_\_\_\_ AMOUNT ENCLOSED, \$ .....

## Ack

**FORWARD BY** .....

**FORWARD BY** \_\_\_\_\_ State if wanted by Mail, Express, Freight or Steamer.  
*(Read Note on bottom of this page.)*

Card Made

**NOTE**—Before you send this order read carefully what we have to say about parcel post and transportation charges on inside of front and back cover.

**SPECIAL NOTICE.**—We shall esteem it a great favor if you will give us in the spaces below the names and addresses of some of your neighbors or any acquaintances in the West whom you think would be interested in this catalog. For your kindness, we will put in your order a premium plant, bulb, or seeds, free of charge.

NAME	POS OFFICE	R. F. D.	STATE

**NOTE**—Before you send this order read carefully what we have to say about parcel post and transportation charges on inside of front and back cover.

# REFERENCE TABLES

Quantity of Seeds to produce a given number of plants or to sow an acre.

## QUANTITY PER ACRE

Asparagus, 1 oz. to 200 plants	4 lbs.
Barley.....In drills 75 ft.	75 lbs.
.....broadcast 100 lbs.	
Beans, Dwarf, 1 lb. to 75 ft.	60 lbs.
Pole, 1 lb. to 100 hills.	30 lbs.
Beet, Garden, 1 oz. to 50 ft.	6 lbs.
Mangel, 1 oz. to 75 ft.	5 lbs.
Broccoli, 1 oz. to 3,000 plants	4 ozs.
Brussels Sprouts, 1 oz. to 3,000 plants	4 ozs.
Buckwheat, drilled, 30 lbs; broadcast	50 lbs.
Cabbage, 1 oz. to 3,000 plants	4 ozs.
Carrot, 1 oz. to 100 ft.	3 lbs.
Cauliflower, 1 oz. to 3,000 plants	4 ozs.
Celery, 1 oz. to 7,500 plants	4 ozs.
Cheat .....	100 lbs.
Chicory, 1 oz. to 100 ft.	4 lbs.
Clover, Alsike and White, White for lawn	60 lbs.
Alfalfa .....	20 to 25 lbs.
Crimson Trefoil .....	10 to 15 lbs.
Red .....	10 to 12 lbs.
(Half the amount when sown with spring grain.)	
Corn, Pop .....	8 to 10 lbs.
Sweet or Field, 1 lb. to 150 hills	15 to 20 lbs.
Silage, drilled.....	40 to 60 lbs.
Corn Salad, 3 ozs. to 100 ft.	5 lbs.
Cress, 1 oz. to 400 ft.	1 lb.
Cucumber, 1 oz. to 50 hills	2 lbs.
Egg Plant, 1 oz. to 3,000 to 4,000 plants	4 ozs.
Emmer or Speltz .....	60 lbs.
Endive, 1 oz. to 300 ft.	4 lbs.
Flax, for seed.....	40 lbs.
Grass:	
Kentucky Blue— for pasture .....	30 to 40 lbs.
for lawn .....	100 lbs.
Mixed Lawn .....	100 lbs.
Red Top Common.....	30 lbs.
Solid Seed .....	15 lbs.

## QUANTITY PER ACRE.

Timothy .....	15 lbs.
(Timothy 2-3, Clover 1-3)	
Orchard .....	30 to 40 lbs.
Rye Grass.....	30 to 40 lbs.
Horse Radish Roots.....	10,000 to 15,000 lbs.
Kale, 1 oz. to 4000 plants	.4 oz.
Kale, Cow Kale drills.....	4 lbs.
Kaffir Corn, drills.....	8 lbs.
Kohl Rabl, 1 oz. to 300 ft.	4 lbs.
Leek, 1 oz. to 100 ft.	4 lbs.
Lettuce, 1 oz. to 300 ft.	3 lbs.
Millet—For Seed.....	20 lbs.
For Hay .....	35 lbs.
Melon—Muskm, 1 oz. to 2 to 3 hills	2 to 3 lbs.
Water, 3 oz. to 100 hills	4 lbs.
Oats—For Grain .....	80 lbs.
Hay .....	100 lbs.
Okra, 1 oz. to 100 ft.	8 lbs.
Onion Seed, 1 oz. to 150 ft.	
For Sets .....	3 to 4 lbs.
Onion Sets, 1 lb. to 40 ft.	250 lbs.
Parsnips, 1 oz. to 200 ft.	5 lbs.
Parsley, 1 oz. to 150 ft.	3 lbs.
Peas—Garden, 1 lb. to 75 ft.	
Field .....	80 to 100 lbs.
Pepper, 1 oz. to 1500 plants	
Potatoes, cut .....	600 lbs.
Pumpkin, 1 oz. to 25 hills.	3 lbs.
Radish, 1 oz. to 100 ft.	
Rape, drilled 3 lbs. broad-cast .....	8 to 10 lbs.
Rye—For Grain .....	60 to 80 lbs.
For Hay .....	100 to 150 lbs.
Salsify, 1 oz. to 50 ft.	8 lbs.
Speltz .....	60 lbs.
Spinach, 1 oz. to 100 ft.	10 lbs.
Sugar Cane, drilled.....	10 lbs.
Sunflower .....	5 lbs.
Squash, Summer, 1 oz. to 25 hills	3 to 4 lbs.
Tomato, 1 oz. to 2500 plants	4 oz.
Tobacco, 1 oz. to 4,000 plants	
Turnip, 1 oz. to 300 ft.	2 lbs.
Vetches .....	85 lbs.
(Or 60 lbs. with 40 lbs. of grain.)	
Wheat .....	80 to 100 lbs.

## WEIGHT PER BUSHEL

Barley .....	48 lbs.
Beans .....	60 lbs.
Buckwheat .....	50 lbs.
Blue Grass.....	14 to 30 lbs.
Cheat .....	34 lbs.
Clover Seed.....	60 lbs.
Corn, Field, shelled .....	56 lbs.
Corn, Sweet .....	50 lbs.
Emmer .....	40 lbs.
Grass Seed, unless otherwise stated .....	14 lbs.
Hungarian Millet	48 lbs.
Lawn Grass.....	14 to 30 lbs.
Meadow Fescue .....	24 lbs.
Millet .....	50 lbs.
Oats .....	32 lbs.
Onion Sets.....	32 lbs.
Peach Pits.....	48 lbs.
Peas, smooth .....	60 lbs.
Wrinkled .....	56 lbs.
Potatoes .....	60 lbs.
Rye .....	56 lbs.
Rye Grass .....	24 lbs.
Red Top .....	14 lbs.
Solid Seed .....	30 to 42 lbs.
Speltz .....	40 lbs.
Timothy .....	45 lbs.
Vetches .....	60 lbs.
Wheat .....	60 lbs.

## SQUARE MEASURE

144 sq. inches	.1 sq. ft.
9 sq. feet	.1 sq. yd.
30 1/4 sq. yards	.1 sq. rod
40 sq. rods	.1 rood
4 roods	.1 acre
640 acres	.1 sq. mile

## DRY MEASURE

2 pints .....	1 quart
8 quarts .....	1 peck
4 pecks .....	1 bushel
36 bushels .....	1 chaldron

## Suitable Distance for Planting Trees and Plants

Note.—In planting in the home garden for hand cultivation, you can set plants or trees closer.	
Apples, Standard .....	20 to 30 feet
Apples, Dwarf .....	10 to 12 feet
Pears, Standard .....	18 to 20 feet
Pears, Dwarf .....	10 feet
Peaches and Apricots .....	16 to 18 feet
Cherries, Sweet .....	20 to 25 feet
Cherries, Sour .....	16 to 20 feet
Plums and Prunes .....	16 to 20 feet
Quinces .....	10 to 12 feet
Grapes .....	6 by 12 feet
Currants .....	4 by 4 feet
Gooseberries .....	4 by 6 feet
Raspberries .....	3 by 6 feet
Trailing Blackberries, Longans, etc. ....	8 by 6 feet
Other Blackberries .....	2 1/2 by 8 feet
Strawberries, in Hills .....	1 1/2 by 3 feet
Strawberries, Matted Rows .....	1 1/2 by 2 feet
Asparagus, in Beds .....	1 by 1 1/2 feet
Asparagus, in Field .....	1 by 4 feet
Rhubarb .....	2 by 4 feet

## Number of Trees or Plants On An Acre

1 by 2 feet .....	21,784	6 by 8 feet .....	907
1 by 3 feet .....	14,520	6 by 6 feet .....	1,210
1 by 4 feet .....	10,890	8 by 8 feet .....	689
1 1/2 by 2 feet .....	14,520	10 by 10 feet .....	430
1 1/2 by 3 feet .....	9,682	12 by 12 feet .....	302
2 by 3 feet .....	7,261	15 by 15 feet .....	194
2 by 4 feet .....	5,446	16 by 16 feet .....	170
3 by 4 feet .....	3,630	18 by 18 feet .....	135
3 by 5 feet .....	2,904	20 by 20 feet .....	110
3 by 6 feet .....	2,420	25 by 25 feet .....	70
4 by 4 feet .....	2,723	30 by 30 feet .....	48
4 by 6 feet .....	1,815	40 by 40 feet .....	28

RULE.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet, for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants to the acre.

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